

Twenty-Sixth Annual Report

OF THE

BOARD OF TRUSTEES

OF THE

OHIO STATE UNIVERSITY

TO THE

GOVERNOR OF OHIO,

FOR THE

Year ending June 30, 1896.

COLUMBUS, O.:
THE WESTBOTE CO., STATE PRINTERS.
1896.

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C. NEWTON BROWN, C. E., Professor of Civil Engineering.	1343 Forsythe Avenue.
ERNST AUGUST EGGERS, Professor of the German Language and Literature.	Eleventh Avenue.

¹ Died July 13, 1895.

² Resigned.

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- THOMAS FORSYTH HUNT, M. Sc., 188 West Tenth Avenue.
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- ARTHUR LYMAN WILLISTON, S. B., 652 Franklin Avenue.
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Professor of Commercial Law and Study of Cases.

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SIDNEY A. NORTON, PH. D., LL. D.,	363 E. Town Street.
Lecturer in General Chemistry.	
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Associate Professor of Drawing.	
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Associate Professor of General Chemistry.	
HENRY C. LORD, B. Sc.,	186 West Ninth Avenue.
Director of the Emerson-McMillin Observatory and Associate Professor of Astronomy.	
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Associate Professor of Veterinary Medicine.	
EMBURY A. HITCHCOCK, M. E.,	191 King Avenue.
Assistant Professor Mechanical Engineering.	
OLIVE B. JONES,	71 West Eleventh Avenue.
Librarian.	
GEORGE W. McCOARD, M. A.,	1322 Neil Avenue.
Assistant Professor of Mathematics.	
¹ WILBUR HENRY SIEBERT, M. A.,	57 West Tenth Avenue.
Assistant Professor of History.	
FRANCIS CARY CALDWELL, B. A., M. E.,	191 King Avenue.
Assistant Professor of Physics.	
FRANK A. RAY, E. M.,	The Normandie.
Assistant Professor of Mining Engineering.	
CHARLES W. MESLOH, A. B., M. A.,	9 Lyndon Block.
Assistant Professor of German.	
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WARREN K. MOOREHEAD,	1080 Madison Avenue.
Curator of the Archaeological Collections.	
JOSEPH RUSSELL TAYLOR, B. A.,	191 King Avenue.
Assistant in Rhetoric.	
CHARLES LINCOLN ARNOLD, M. Sc.,	239 West Tenth Avenue.
Assistant in Mathematics.	
CHARLES B. MORREY, B. A.,	University Grounds.
Assistant in Physiology.	

¹ Absent on leave.

- CLAIR ALBERT DYE, G. PH., 135 King Avenue.
Assistant in Pharmacy.
- LLOYD MORRIS BLOOMFIELD, B. Agr., University Grounds.
Assistant in Agricultural Chemistry.
- FRANK J. COMBS, 1173 Franklin Avenue.
Assistant in the Industrial Department and Foreman of the Forge Room.
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Assistant in the Industrial Department and Foreman of the Carpenter and Pattern Shops.
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Assistant in the Industrial Department and Foreman of the Machine Shops.
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Assistant in Drawing.
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Assistant in Physics.
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Assistant Librarian.
- KARL DALE SWARTZEL, M. Sc., 57 West Frambes Avenue.
Fellow, and Assistant in Mathematics.
- THOMAS KENYON LEWIS, B. Sc., 32 West Ninth Avenue.
Assistant in Drawing.
- CHARLES A. BRUCE, B. A., 234 West Tenth Avenue.
Assistant in French and Latin.
- JOHN A. BOWNOCKER, B. Sc., 1594 Neil Avenue.
Assistant in Geology.
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Assistant in Botany.
- FRANCIS L. LANDACRE, B. Sc., 70 West Tenth Avenue.
Assistant in Zoology and Entomology.
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Assistant in Entomology.
- MAUD D. JEFFREY, 65 West Eleventh Avenue.
Assistant Librarian.
- AMBROSE P. WINSTON, B. A., 35 West Tenth Avenue.
Assistant in History and Political Science.
- ROMEO O. KEISER, B. Sc., 122 King Avenue.
Laboratory Assistant in General Chemistry.
- HARRY McF. BALL, D. V. S., 663 North High Street.
Assistant in Veterinary Medicine.
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Assistant in Latin.
- FRANK HAAS, C. E., 233 East Tenth Street.
Fellow, and Laboratory Assistant in Metallurgy.

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Fellow, and Laboratory Assistant in General Chemistry.	
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FREDERICK E. KESTER, M. E.,	1473 Neil Avenue.
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GEORGE H. CALKINS, M. E.,	750½ East Long Street.
Fellow, and Laboratory Assistant in Physics.	
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Fellow, and Assistant in Rhetoric and English Language.	
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STATE GEOLOGIST.

PROFESSOR EDWARD ORTON.

STATE SEALER OF WEIGHTS AND MEASURES.

THE PROFESSOR OF PHYSICS, *Ex-Officio*.

COLUMBUS, OHIO, June 30, 1896.

His Excellency, Hon. ASA S. BUSHNELL, Governor of Ohio:

DEAR SIR: I have the honor to transmit herewith the twenty-sixth annual report of the Board of Trustees of the Ohio State University.

Very respectfully, your obedient servant,

ALEXIS COPE, *Secretary.*

Report of Trustees.

OFFICE OF THE BOARD OF TRUSTEES,
OHIO STATE UNIVERSITY,
COLUMBUS, OHIO, *June 30, 1896.*

Hon. ASA S. BUSHNELL, Governor of Ohio:

SIR: In compliance with law the Board of Trustees respectfully submits the twenty-sixth annual report of the Ohio State University, it being for the year ending June 30, 1896.

ENDOWMENT.

The part of the irreducible debt of the State which forms the endowment of the University was, at the date of the last annual report, June 30, 1895, \$548,862 17, upon which the annual interest was \$32,931.73.

Under the operations of the act of the General Assembly of Ohio of March 14, 1889, entitled, "An act to quiet title to unpatented lands in the Virginia Military District of Ohio," the following additions were made thereto: October 7, 1895, \$36 50; June 23, 1896, \$304.56; total \$341.06, making the endowment fund June 30, 1896, \$549,203.23, upon which the annual interest is \$32,952.19.

RECEIPTS AND DISBURSEMENTS.

The receipts and disbursements for the year ending June 30, 1896, have been as follows:

RECEIPTS.

Balance in treasury, June 30, 1895	\$4,190 30
Interest on endowment	32,934 27
State levy	89,284 81
State appropriation, school of ceramics	2,547 11
Congressional appropriation (act of 1890)	21,000 00
Term and laboratory fees of students	19,881 50
Sale certificates of indebtedness, part proceeds	3,000 00
Sale store room cards	2,200 00
Rents	1,243 40
Gas	116 80
Miscellaneous receipts	120 66
	<hr/> \$176,518 85

DISBURSEMENTS.

Salaries	\$100,366 01	
Expenses of trustees	415 75	
Ordinary repairs.....	7,072 25	
Fuel and light.....	4,991 08	
Library.....	3,622 13	
Printing and advertising.....	2,961 76	
Virginia Military Lands	34 83	
Roads and Grounds.....	6,682 51	
Boiler and power house.....	3,318 84	
Laboratory supplies	5,029 56	
Apparatus.....	7,370 98	
School of law	7,845 38	
School of ceramics.....	2,514 73	
Bonds and interest.....	16,000 00	
Extra janitors and firemen.....	737 93	
Guide service.....	238 29	
Insurance, observatory.....	171 36	
Office rent	301 59	
Typewriters.....	230 00	
Architects' fees.....	275 00	
Furniture.....	697 77	
Water rents and charges	517 93	
Postage.....	518 08	
Telephone service.....	168 60	
Commencement expenses.....	251 45	
New generator, power house.....	800 00	
Separator.....	50 00	
General supplies.....	494 89	
Assistance in library.....	325 00	
Special lectures, agriculture	71 95	
Freight and cartage.....	753 20	
Band instruments and instruction.....	235 65	
Clerical assistance, secretary's office	430 40	
Clerical assistance, department of agriculture	83 50	
Expenses of committee visiting institutions.....	230 47	
Miscellaneous expenses	696 02	
		\$176,004 89
Balance in treasury June 30, 1896.....		\$513 96

A detailed statement of such receipts and disbursements is given in the treasurer's report filed herewith.

DISBURSEMENTS FOR EMERSON MCMILLIN OBSERVATORY.

In addition to the foregoing disbursements there was expended under the direction of the trustees :

For the erection of the Emerson McMillin Observatory.....	\$5,476 25
And for its equipment.....	9,796 08
Total	\$15,272 33

The contracts were made and the bills and estimates approved by the Board of Trustees, but under an arrangement made with Mr. Mc-Millin, such bills and estimates were paid by him through the Capital City Bank of Columbus.

NEW MORRILL FUND.

The following is a statement showing the receipts and disbursements for the year ending June 30, 1896, of the appropriations made by act of Congress approved August 13, 1890, and known as the "New Morrill Fund":

RECEIPTS.

Balance in hand of treasurer June 30, 1895.....	\$392 43	
Appropriation for year ending June 30, 1896.....	21,000 00	
	<hr/>	\$21,392 43

DISBURSEMENTS.

For instruction and facilities in agriculture.....	\$4,294 62	
For instruction and facilities in mechanic arts.....	5,417 81	
For instruction and facilities in English language.....	915 00	
For instruction and facilities in mathematical science.....	1,160 00	
For instruction and facilities in natural or physical science.....	8,917 61	
For instruction and facilities in economic science.....	613 00	
	<hr/>	21,318 04
Balance June 30, 1896		<hr/> \$74 39

The law of Congress requires a detailed annual report of the receipts and expenditures of this fund, which report for the year ending June 30, 1896, is appended to the treasurer's report filed herewith.

VIRGINIA MILITARY LANDS.

Up to June 30, 1895, the total receipts from the sale of the Virginia Military Lands granted to the University by act of the General Assembly of March 26, 1872, were.....		\$65,142 66
There have been no receipts from this source during the year just closed.		
The expenses incidental to the survey and disposition of such lands to June 30, 1895, were.....	\$22,671 72	
Such expenses for the year ending June 30, 1896, were.....	31 83	
	<hr/>	22,706 55
Leaving net cash receipts from this source.....		\$42,436 11
Of this sum there has been paid to the credit of the endowment fund	\$13,665 14	
And for building and maintaining residences for the professors under act of April, 1882.....	19,162 42	
	<hr/>	32,827 56
Leaving balance June 30, 1896		<hr/> \$9,608 55

Up to June 30, 1895, the additions to the endowment fund under the operations of the act of the General Assembly of March 14, 1889, entitled "An act to quiet title to unpatented lands in the Virginia Military District of Ohio," the act of April 21, 1893, entitled, "An act for the relief of certain persons who formerly held lands in the Virginia Military District of Ohio," and an act amendatory of said last mentioned act, passed May 21, 1894, were.....	\$11,020 73
During the year just closed, under the operations of said first mentioned act, there was added to said endowment fund.....	341 06
Making the total additions to the endowment under said acts to June 30, '96	\$11,361 79

The suits growing out of the contract with the late Mr. Sam Kendrick for the discovery of undiscovered lands in the Virginia Military District of Ohio, mentioned in former reports, are still undisposed of. Recently, propositions for a settlement of these cases have been made by the plaintiffs, and are being considered by a committee of the Board of Trustees.

BONDED INDEBTEDNESS.

On June 1, 1896, \$10,000 of the previous bonded indebtedness was paid, leaving outstanding the sum of \$90,000, which bears interest at the rate of six per cent. per annum, payable semi-annually.

Said outstanding bonds are payable \$10,000 June 1, 1897; \$10,000 June 1, 1898; \$10,000 June 1, 1899; \$10,000 June 1, 1900; \$10,000 June 1, 1901; \$10,000 June 1, 1902; \$10,000 June 1, 1903; \$10,000 June 1, 1904 and \$10,000 June 1, 1905.

On the 15th day of June, 1896, under authority conferred by act of the General Assembly passed April 17, 1896, entitled, "An act to authorize the Board of Trustees of the Ohio State University to issue certificates of indebtedness for certain purposes therein mentioned," such purposes being "for the speedy erection of needed buildings and improvements and the securing of needed equipment," the trustees sold \$150,000 such certificates bearing interest at the rate of four and one-half per cent. per annum, payable semi-annually, receiving therefor par, accrued interest and a premium of \$425. Said bonds are dated June 1, 1896, and are payable as follows: \$25,000 December 1, 1898; \$25,000 December 1, 1899; \$25,000 December 1, 1900; \$25,000 December 1, 1901; \$25,000 December 1, 1902; \$25,000 December 1, 1903.

The bonded indebtedness has thereby been increased to \$240,000 upon which the annual interest charge is \$12,150.

The act providing for the last mentioned certificates of indebtedness authorizes an amount not exceeding \$300,000, but it was thought that a present issue of \$150,000 would provide all the revenues needed for payment of estimates for projected buildings and improvements during the next few months, after which a further issue can be made if additional funds are then needed.

FIRE PROTECTION.

In the last annual report, attention was called to the lack of fire protection for the University buildings, and a recommendation was made looking to the construction of three large cisterns of a capacity of 1,000 barrels each, at an estimated cost of \$3,000.

On further consideration of the subject, Mr. W. C. McCracken, the Engineer of the University, recommended the construction of a large reservoir near the boiler house to contain about 500,000 gallons of water, to be supplied from a well in the low ground west of the campus. The arguments in favor of this plan were that it would furnish a larger volume of water for fire protection, and at the same time an ample supply for use in the steam boilers. The water from the proposed well, being much softer than the city water, would cause less corrosion of the boilers, and would diminish to the extent of its use, the water rents paid to the city. He submitted plans and estimates for such a reservoir, including the necessary pumps, pipes and connections, showing that the cost would be a trifle less than the estimates for the proposed fire cisterns. Mr. McCracken's recommendation was adopted, and in April a contract for the construction of the reservoir was awarded to Mr. Joseph Braun of Columbus, at his bid of \$2,511, and the work is progressing rapidly. A well has been sunk and an ample supply of water obtained. The pipes have been laid from the well to the reservoir, the necessary pumping machinery has been ordered, and the entire work will probably be completed during the present vacation.

COMPLETION OF BOILER HOUSE AND ERECTION OF POWER HOUSE.

Mention was also made in the last annual report of the unfinished condition of the boiler house, which was begun in 1892, with a view of consolidating the steam heating and power in one building, and was left in an unfinished condition owing to lack of funds with which to complete it. After the passage of the acts increasing the University levy, and authorizing the issue of certificates of indebtedness in order to provide needed buildings and equipment, plans and estimates for the completion of the boiler house and for the erection of a power house were promptly prepared, approved by Your Excellency, the Auditor and Secretary of State, and notice given as required by law of the reception of bids for the erection of said buildings. On the 19th day of May last, the bids were opened and the contract for the buildings was awarded to Mr. F. M. Fornoff of Columbus, at his bid of \$17,839.82. The contract for the coal conveying machinery was at the same time awarded to the Jeffrey Manufacturing Co., of Columbus, at their bid of \$3,190.74. The contractors at once proceeded with their work, and it is progressing favorably.

As soon as the new boiler house is completed the boilers in the old boiler house will be removed thereto, and the old structure, which was partially destroyed by fire last winter, will be torn down and removed. To make the power, heating and lighting plant complete and adequate for the needs of the present and immediate future, it became necessary to purchase a new and larger engine and new electrical machinery. A number of new modern appliances were also found necessary to make the plant satisfactory in every respect. These have all been ordered and will probably be in place ready for use by the time they are needed.

ABANDONMENT OF GAS WORKS.

For a number of years the University has manufactured its own gas for lighting the buildings and for use in the various laboratories. The plant was a small one, and during the last two years it has been taxed to its full capacity to supply all the gas needed. The Trustees were therefore confronted with the question whether to enlarge the plant at considerable cost or abandon it entirely and obtain the necessary supply from the city gas works. The settlement of the question was made less difficult by an offer of the Columbus Gas Co. to furnish all the illuminating gas needed by the University for a period of ten years at the price of seventy-five cents per thousand cubic feet, and in case a general reduction in price to ordinary consumers was made during said period, the price to the University to be proportionately reduced. After careful consideration of the subject the offer of the Columbus Gas Co. was accepted, and the old gas works will be torn down and removed.

ENLARGEMENT OF LIBRARY FACILITIES.

On the occasion of a visit to the University Library by Senator S. J. Williams during the last session of the General Assembly his attention was called to its crowded condition and to the necessity for additional space for its accomodation. He suggested the erection of a gallery around the four sides of the library room, but at that time there were no funds that could be used for the purpose. After the adjournment of the Legislature following Senator Williams' suggestion, plans for such improvement were prepared, and the contract for the work was awarded to Mr. D. C. Spencer at his bid of \$2,800, the work to be completed by the 15th day of next September. The room now occupied by the Library was not designed for its permanent abiding place, but for the use of the Geological Museum whenever its collections should need additional space. The gallery will not interfere with the use of the room for museum purposes, but will directly add to its efficiency for that use. Such provision, though sufficient for present needs, will, however, afford only temporary relief.

The growth of the Library and the constant additions to the Geological and Archaeological collections bring us face to face with the fact that a separate library building will soon be needed. When such building is planned it should be on a scale amply sufficient for the present and for the future requirements of a great University.

ADDITION TO THE BOTANICAL BUILDING.

Among the minor improvements ordered during the past year was an addition to the Botanical Building, made necessary by increasing collections and increasing numbers of laboratory students. The addition has been ordered at a cost of \$1,130 94.

ENLARGEMENT OF CHAPEL.

The necessity for a larger room for chapel exercises and for use on public occasions has been presented year after year in the annual reports.

The action of the last General Assembly, heretofore referred to, made it possible to secure such a room. A plan was presented for a single building containing an auditorium which would seat not less than twenty-five hundred people, an armory and gymnasium, additional lecture rooms and suitable offices for the Trustees and for the general executive work of the University. A careful study of the immediate and most pressing needs of the institution satisfied the Board that a better present use could be made of the same amount of funds.

It was therefore decided to abandon the more ambitious plans, and instead to enlarge the chapel by extending the north wall forty feet, thereby securing a room 94x65 feet, which, with a gallery, would seat from twelve to fifteen hundred people. Plans for such improvement were prepared by Messrs. Yost & Packard, architects, received the approval of Your Excellency, the Auditor and Secretary of State, and on the 15th of June, 1896, the contract for such improvement was awarded to Nichol & Carr, of Columbus, at their bid of \$18,678. The work is well under way, and is to be completed by November 1, 1896. The improvement contemplates not only the enlargement of the Chapel but also an extension of the entire four stories of the wing in which it is located, which will provide twelve fine recitation rooms on the third and fourth floors.

OTHER PROPOSED IMPROVEMENTS.

The change of plans above referred to made it possible to not only provide a separate building for the Armory and Gymnasium, but also to secure with the same expenditure a building for the departments of Anatomy and Physiology and Zoology and Entomology, to be called the

Biological Building. This building will greatly increase the efficiency of the departments named and will provide a secure place for their very valuable collections. Messrs. Yost & Packard, architects, have been employed to prepare plans for these buildings, the Armory and Gymnasium to cost not exceeding \$60,000, and the Biological Building to cost not exceeding \$30,000.

At the same time Messrs. Peters, Burns & Pretzinger, of Dayton, were employed to prepare plans for an agricultural building to cost not exceeding \$85,000. Both firms have been instructed to hasten the preparation of the plans so that the buildings can be finished in time for occupancy next year.

In connection with the foregoing, it is contemplated to fit up for executive offices the rooms now occupied by the department of Zoology and Entomology as soon as this department is removed to its new quarters in the proposed Biological Building.

All the foregoing improvements have been made possible by the action of the General Assembly at its last session in passing the bill introduced by Senator N. R. Hysell, increasing the University levy to one-tenth of a mill, and the bill introduced by Senator Williams, authorizing the issue of certificates of indebtedness to an amount not exceeding \$300,000 in anticipation of such increased levy. It is cause for congratulation that these measures received the almost unanimous support of both bodies of the General Assembly. It indicates a public sentiment in favor of the University which insures a steady and cordial support, and which is encouraging in the highest degree to all its friends. To the Trustees of the University who are charged by law with the duty and responsibility of wisely applying the income of the institution, there comes with increased revenue increased responsibility.

With a full sense of such responsibility they hope to be able, as in the past, to safe-guard all expenditures so that no part of the income of the University shall fail of its beneficent purpose by being lost or misapplied.

LEASE OF RESIDENCE LOTS TO PROFESSORS.

The desirability of having as many of the faculty as possible located on or near the University grounds has long been apparent. At different times the Trustees have been approached with reference to the lease of some particular portion of the University estate for residence purposes by different members of the faculty, but as in all cases the site desired has been one that would probably interfere with the use of the grounds for needed University buildings, the requests have been refused on that account. About two years ago formal application was made by Professor

Eggers for the lease of a lot on Eleventh avenue for the purpose of erecting thereon a residence for himself. As the site desired was one which in all probability would never be needed for University buildings, the question of the power of the Trustees to make such leases was referred to the Attorney General, who gave a written opinion to the effect that such leases were legal and proper, and within the power of the Trustees to grant under reasonable restrictions. Accordingly a portion of the grounds abutting on Eleventh avenue was laid off into lots of a frontage of fifty feet and a depth of one hundred and fifty feet, and one of these was leased to the professor at six per cent. per annum on a valuation of \$1,250.

The contract was carefully guarded by provisions for renewal and revaluation from time to time and for the proper appraisement and transfer in case of the termination of employment of the lessee by death, resignation or otherwise.

Professor Eggers has erected a handsome residence on the lot leased to him, which he is now occupying. As this inaugurates a new policy with reference to the lands of the University, and has not been heretofore reported, it is thought wise to make formal mention of it in this report.

THE LAKE LABORATORY.

Among the important events of the past year has been the establishment at Sandusky of a laboratory for the department of Zoology and Entomology for the study and investigation of animal and plant life in the waters of Lake Erie.

The project was first broached about two years ago by Professor Kellicott, but the expense of the necessary building seemed to place it beyond reach. A suggestion was made that, inasmuch as the proposed investigations would be alike advantageous to the State Fish and Game Commission, perhaps an arrangement could be made with them for joint use of a portion of their Hatchery Building at Sandusky. The suggestion was eagerly seized upon and presented to the Hon. H. B. Vincent, then President of such Commission. He gave the project generous encouragement and support and arranged for a joint meeting of such Commission and a committee appointed by the Trustees of the University to consider the matter. In September, 1895, as a result of such conference, it was agreed that the University should erect a second story to the State Hatchery Building at Sandusky, to be used for purposes of Biological investigation only, and when not so used to be used freely by the Fish and Game Commission. Pursuant to said agreement, said proposed improvement was made by the Trustees at a cost of \$425, and the needed equipment of the laboratory was provided at a small additional cost. The laboratory was ready for use during the present summer vacation,

and is now occupied by Professor Kellicott and a number of his students, who have commenced the proposed investigations and have made valuable additions to the collection (already begun) of the food fishes of Ohio.

The University acknowledges its obligation to the members of the State Fish and Game Commission for their kindness and courtesy, and for their cordial co-operation in an enterprise which promises results of great value to science and to the people of the State.

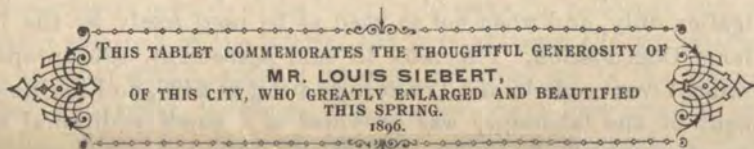
IMPROVEMENT OF THE CAMPUS.

The improvement of that part of the Campus in the immediate vicinity of the Observatory, which was made a condition of Mr. McMillin's additional gift of \$5,000 towards the Observatory, was continued during the year. The ground south of the ravine was graded and sown in grass, a handsome limestone road twenty feet wide and 1,630 feet long was built from a point near Neil avenue, passing south of the Observatory and round to a point near Orton Hall, and a carriage driveway twelve feet wide and 300 feet long from said road to the Observatory. Necessary walks were constructed, the lake north of the Observatory was increased to three times its former size and handsome rustic bridges were placed between the small islands. These improvements were made at a cost of about \$6,000, and have added greatly to the beauty of the grounds.

In addition to the foregoing improvements the old house on Eleventh avenue was removed and a new wire fence was built enclosing that part of the University grounds south of the Campus, and extending from High street to Neil avenue, at a cost of about \$600. This work was all done under the efficient direction and supervision of Professor Hunt, who, in addition to his duties as Professor of Agriculture, has charge of all such improvements on the University grounds.

IMPROVEMENT OF THE SPRING.

The fine spring near the Observatory, which has always been one of the most attractive points on the Campus, has been greatly beautified by the liberality of Mr. Louis Siebert, of Columbus, who has expended over one thousand dollars in the improvement, besides superintending the work in person. At the suggestion of President Canfield, and as a small token of their appreciation of Mr. Siebert's generosity, the Trustees have had placed near the spring a small stone bearing the inscription:



It is a simple tribute to a worthy and large-hearted, public spirited citizen.

GIFTS DURING THE YEAR.

The University has received by gift during the year the following additions to its museums and other collections, for which it acknowledges its obligations to the generous donors:

For the Department of Agricultural Chemistry:

From Dr. F. B. McNeal, of Columbus, 12 bottles coal tar colors.

From Armour & Co., Chicago, 18 glass jars of fertilizers, 4 bottles Pepsin and Pancreatin.

For the Archæological Collection:

From Dr. E. M. Gaston, Tranquility, O., a large and interesting collection from Brush Creek Valley.

From J. B. Ellison, Duncansville, O., 125 specimens, including some fine axes and celts.

From J. McNutt, Winchester, O., 19 large spear heads.

From Mr. John Montgomery, Youngsville, O., 150 flint implements.

From Mr. Geo. Morrison, Newport, O., 125 pestles, axes, celts, flint implements, drills, ornaments, specimens of pottery, etc., from the site of the famous pre-historic village at the junction of the two Brush Creeks just below Newport, O.

From other numerous friends and patrons, about 2000 different specimens, and three large collections as a loan.

For the Emerson McMullin Observatory:

From Mr. Julius Stone, Columbus, a large American flag.

From Prof. Edward S. Holden, several volumes of the publications of the Lick Observatory.

From Prof. W. S. Burnham, a number of reprints for his publications.

From Father Fargis, publications of the Georgetown Observatory.

From Prof. E. C. Pickering, 24 volumes of the publications of the Observatory of Harvard College.

For the Department of Mining and Metallurgy:

From the Washburn and Moen Manufacturing Co., Worcester, Mass., set of wire rope samples in hardwood case.

From Solway Process Co., Syracuse, N. Y., set of drawings of Sweet Solway ovens.

From W. J. Lewis, Pittsburgh, Pa., set of photographs of recent Steel Tipples.

From Ohio Steel Co., Youngstown, O., drawings of producers and furnaces.

From Mr. Dewey, Boise City, Idaho, fine specimens of silver ore.

From P. M. Lincoln, a former graduate, specimens illustrating manufacture of Carborundum.

From Nat. Smelting and Refining Co., Chicago, Ill., a fine series of Metallurgical specimens.

For Departments of Zoology and Entomology:

From students in college of Veterinary Medicine, fine skeleton of a camel.

Among the gifts which deserve more than mere formal acknowledgment, is the restored skeleton of the Megalonyx in the Geological Museum which has been acquired through the never failing generosity of Mr. Emerson McMillin. He tried to keep his connection with it an entire secret, and it was only after the bones had been secured, and the skeleton restored and placed in the museum, that it was learned that he had taken the initiative in every step towards securing the bones, and had borne the entire expense of their purchase, mounting and transportation, which fell only a little short of one thousand dollars. The skeleton is important as being the only complete one in existence, and it is an interesting coincidence, that it should have been placed in the museum on the 13th day of April, 1896, the anniversary of the birthday of Thomas Jefferson, who gave it its generic name.

Another gift of little intrinsic value, but of much historic interest to the University, which deserves special mention, is the original draft of the first course of study adopted for the University. It was prepared by the late Mr. Joseph Sullivant, a member and secretary of the first Board of Trustees, and came into the possession of Dr. T. C. Mendenhall, President of the Worcester Polytechnic Institute, who was the first person elected a member of the faculty of the University. He had the time worn document carefully enclosed in a double glass case and sent it for preservation in the University Library.

The trustees also desire to express, specially, their appreciation of the public spirit of the late Hon. Leander J. Critchfield, who by his will left to the University, his valuable law library.

THE EMERSON MCMILLIN OBSERVATORY.

In the last annual report mention was made of the generous gift of Mr. Emerson McMillin for the erection and equipment of an Astronomi-

cal Observatory. The work on the building was begun and the equipment ordered in the summer of 1895. In the early part of November, the transit instrument and spectroscope were received, and in December, the large telescope was placed in position. The entire equipment was carefully inspected and approved by Prof. James E. Keeler of the Allegheny Observatory. In his report of such inspection, he says, "In my opinion the funds at the command of the committee have been judiciously expended. It would hardly be possible to do more with the same amount of money and that so much has been accomplished is evidence of careful and able supervision in all parts of the work. These remarks may not come within my province, in which case I beg to offer my apologies, but on carefully examining the Observatory I was struck by the general excellence of its design and construction, and it seems to me proper that I should express some sense of my satisfaction. The principle instruments of the Observatory are of the latest and most approved pattern. The equatorial in particular, is an unusually fine instrument, graceful in design, and accurate in its workmanship. I have especially to commend the judgment which has been displayed in providing it with the attachments which are really useful and rejecting those which are luxurious, and which in fact, are often found to be troublesome, rather than convenient in practical observation."

The formal opening of the Observatory took place June 15, 1896, when interesting addresses were made by Prof. E. C. Barnard of Chicago University and the Hon. E. S. Wilson of Ironton, a life long friend of Mr. McMillin. At the close of Mr. Wilson's address, he read a letter from Mr. McMillin, offering to donate three hundred dollars a year for the period of five years, for the endowment of a Fellowship in Astronomy. The generous offer was gratefully accepted, and the Fellowship was created and awarded to Mr. E. F. Coddington, a graduate in the class of 1896.

NUMBER OF STUDENTS.

The number of students in attendance during the University year just closed was 968 as against 805 during the preceding year.

The numbers in the several departments and classes and the course of instruction pursued in each are shown in the report of the President and the catalogue which are made a part of this report.

THE FACULTY.

The changes in the Faculty since the last annual report are noted in the report of the President which is filed herewith. The number of professors in the Academic Faculty is 25; associate professors, 10; assistant

professors, 4; assistants, 23; fellow assistants, 6; lecturers, 1; curators, 1; librarians, 1.

The Law Faculty consists of the Dean and eight professors. Their positions and compensation and that of the other employes of the University, are stated elsewhere in this report.

THE LIBRARY.

There were added to the University Library during the year ending June 30, 1896, 2,968 books, making a total number of 19,307. The number of pamphlets is about 8,000.

DEGREES.

At the commencement of June, 1896, on the recommendation of the Faculty, the following degrees were conferred.

BACHELOR OF ARTS.

Zoa Baldwin, Columbus; Warren Noble Groff, Tiffin; Odessa High, Columbus; Fannie F. Howard, Columbus; Florence M. James, Columbus; Edward D. Meek, St. Clairsville; Allen Metters, Columbus; Annie E. Morrey, Chester Hill; Mary B. Scott, Columbus; T. C. Southard, Columbus; Chas. F. Sprague, Wapakoneta; Chas. Workman, Columbus; F. W. Walker, Columbus.

BACHELOR OF PHILOSOPHY—(*Latin Course*).

Josephine Barnaby, Columbus; Frank F. Boesel, New Bremen; Adelaide Gordon, Columbus; Mary H. Walsh, Columbus; Lloyd T. Williams, Jackson.

BACHELOR OF PHILOSOPHY—(*Modern Language Course*).

Laura J. Connell, Columbus; Arlington C. Harvey, Mt. Perry; H. D. Montgomery, Martin's Ferry; Fred Mundhenk, Columbus; Andrews Rogers, Columbus; Albert E. Sellenings, Chillicothe.

BACHELOR OF PHILOSOPHY—(*English Course*).

Clarence M. Addison, Newton; Harry F. Brand, Worthington; Leander R. Canfield, Chardon; Florence H. Derby, Columbus; Ralph M. Forgy, Troy; Fred F. Fox, McConnellsville; Reed H. Game, Canal Winchester; Eli T. Genheimer, Wheelersburgh; Martha C. Guerin, Columbus; Rose L. Hammond, Columbus; Emory W. Harvey, Mt. Perry; Benson G. Watson, New Salem.

BACHELOR OF SCIENCE.

Oscar Rogers Flynn, Columbus; Maud Flynn, Columbus; Edwin Meade Wilcox, Columbus; Oliver Parker Fritchie, Mt. Hope.

BACHELOR OF SCIENCE—(*In Agriculture*).

Delbert A. Crowner, Wellsville, N. Y.; Phillip L. Pfarr, Minersville; Murray M. Rarick, Columbus; Frank B. Ruhlen, Plain City.

BACHELOR OF SCIENCE—(*In Horticulture and Forestry*).

Isaac Thorn Reynolds Hill, Berlin Heights.

CIVIL ENGINEER.

Clyde S. Bartholomew, Newark; Henry D. Bruning, Columbus; Homer C. Catlin, Canton; Hugh L. Conway, Bellefontaine; Walter S. Deahl, Columbus; William C. Lindo, Moneague, Jamaica; Frank F. Marquard, Dayton; Homer A. Patch, Austintown; Lee R. Stewart, Fostoria; Edwin F. Coddington, Conover; James M. Walker, Wedonia, Ky.

ENGINEER OF MINES.

Percy A. Alsdorf, Utica; Ernst Eysenbach, Delphos; Frank Haas, Dayton; Chas. M. Henretta, Moundsville, W. Va.; Lavellette L. Logan, Horatio; James B. Rogers, Youngstown.

MECHANICAL ENGINEER.

Raymond Cilley, Cincinnati; Maurice Donham, Lindale; Lee A. Frayer, Greenwich; William F. McCormick, Columbus.

MECHANICAL ENGINEER—(*In Electrical Engineering*)

Chas. P. Alexander, Letart Falls; Herman M. Biebel, Columbus; Frank H. Blackburn, New Vienna; Hugh Stanley Carr, Yellow Springs; Hugo Diemer, Cincinnati; Andre DeLoffre, Columbus; James B. Given, New Concord; Roy E. Hebble, Xenia; Charles W. Johnson, Columbus; Vallie H. Kuhn, Etna; William E. Matson, Zanesville; Frank E. Mercer, Wauseon; George B. McNary, Bradford; Robert B. Reed, Troy; John R. Spurrier, Chester Hill; Harford T. Stewart, Columbus; Charles A. Hyle, Columbus.

GRADUATE IN PHARMACY.

Louise M. Albert, Columbus; William E. Allaman, Brookeville; Felix J. Boesche, New Bremen; John W. Brewer, Columbus; Sylvester J. Goodman, Columbus; Romeo O. Keiser, B. Sc., Dayton; Abdel W. Kiler, Clifton; Edward V. Lefler, Leipsic; William H. Reese, Glen Roy; William H. Swisher, Cambellstown; Anstie W. Teter, Springfield; Sherman Lee Harvey, Harrisburgh.

DOCTOR OF VETERINARY MEDICINE.

William F. Jones, Shandon; Clarence Loveberry, Somerset.

MASTER OF SCIENCE.

Emma Leanna Ball, B. Sc., Ironton; William Lloyd Evans, B. Sc., Columbus; Emma A. Rupersburg, B. Sc., Columbus.

MASTER OF SCIENCE—(*In Horticulture and Forestry*).

Ernest E. Bogue, B. Sc., Agr. Norma, Oklohoma; Moses Craig, B. Sc., Corvallis, Oregon.

MASTER IN PHARMACY.

Robert Fischer, G. Ph., Columbus.

On the recommendation of the Faculty of the College of Law, the following degrees were conferred :

BACHELOR OF LAWS.

Joseph Franz Bertsch, Columbus; Newton Edgar Givens, Waverly; David Matthias Griffith, Kecksburgh, Pa.; Geo. Linville Gugle, Columbus; Leonard Anthony Magruder, Columbus; Edward Thomson Powell, Columbus.

MASTER OF LAWS.

David Edward Daniels, LL. B., Columbus; Joseph Clarence Goodman, LL. B., Columbus; Edward Davenport Howard, LL. B., Columbus; Jesse Worthington Snider, LL. B., Columbus; Harry Rush Wilson, LL. B., Columbus; William Van Horn Wright, LL. B., Columbus.

EXPERIMENTS AND INVESTIGATIONS.

An account of the experiments and investigations carried on throughout the last University year is submitted with the President's report.

ESTIMATES.

The following estimates are submitted for the current expenses of the University for the year ending June 30, 1896:

Salaries.....	\$118,000 00
Expenses of trustees.....	500 00
Fuel and light.....	5,000 00
Repairs.....	5,000 00
Library ..	5,000 00
Printing and advertising ..	2,500 00
Roads and grounds.....	4,000 00
College of law (over receipts) ..	1,500 00
Virginia Military Lands	500 00
Interest on bonds	12,150 00
Bonds due June 1, 1896.....	10,000 00
Department supplies and apparatus	21,226 45
Unexpended balances of last year's appropriations	3,786 38
Miscellaneous	5,000 00
Total ..	\$194,158 83

The reports of the President and Treasurer and the annual catalogue of the University for the year ending June 30, 1896, are herewith filed and made a part of this report.

Respectfully submitted,

ALEXIS COPE,
Secretary.

The President's Report.

THE RETIREMENT OF PRESIDENT SCOTT.

On the 30th of June, 1895, in accordance with his often repeated request, William Henry Scott, M. A., LL. D., was allowed to withdraw from the presidency of this University and to devote his entire time to the Department of Philosophy—the work of which he had carried, in addition to the arduous duties of an Executive, during the twelve years of his connection with the institution. During all these years President Scott was clearly one of the wisest and ablest administrators that the University had known. His unswerving loyalty to the institution, his faithfulness to every interest committed to his care, his high sense of honor and his absolute integrity, his keen regard for truth and justice, his unfailing industry, his even temper, and his kind heart—all these characteristics combined to win him a warm place in the remembrance and regard of all those who were associated with him in the work of administration and instruction, and of those who were so fortunate as to be students in the institution during his administration. The work of a foundation builder is very apt to be underestimated. The old saying that the minister who builds a church generally buries himself in the cellar is quite as true of the men who lay the under-walls of great educational institutions. As years pass the good work of President Scott will be more and more thoroughly understood and appreciated.

I took the oath of office on Monday, July 1, before Justice Marshall J. Williams, in the Supreme Court room.

A BUSY YEAR.

The academic year which has just closed has been one of great activity at the University, and of activity which has met with unusual success. Early in the year the Faculty felt that the time had come to put the institution upon a true university basis. Accordingly steps were taken to abandon the preparatory work at the end of the year, the University was divided into six distinct and independent colleges, and the entire work of the departments was most carefully revised. The whole year was given to this new departure, every detail of which was discussed before special committees and in the general Faculty. The general results are the creation of six colleges with independent faculties, these colleges

taking the place of the schools into which the University was formerly divided. This charges those who have special interests and special work with responsibility for that work, and permits only indirect participation in this work by others, and this only so far as is desirable because of a general interest in the University at large. There is the same opportunity and incentive, therefore, for advancement and development in these colleges which are present for the advancement and development of departments. Indeed, the entire theory of administration in the University is that each department is practically independent of all other departments, though co-ordinated with them; and that it is the peculiar business of the head of each department to push his work, to enlarge its scope, to increase its value, precisely as though it were a private enterprise. This gives full play to the natural and legitimate ambition of strong men, and leaves the work of the Executive chiefly that of general supervision along the line of harmonious action and systematic growth.

The revision of the work of the departments has, in each case, meant added strength. Our revenues available for purposes of instruction have not warranted any special enlargement of the Faculty, and therefore heads of departments have necessarily been content with intensifying the work already in hand. As rapidly as possible, however, the reasonable instructional demands must be met, which means at no very distant period some new departments and a considerable addition to the teaching force in the old.

TWO NEW DEPARTMENTS.

The special additions to the work of the University are the Department of Pedagogy and the Department of Domestic Science. The Department of Pedagogy was created to meet a very proper and urgent demand on the part of the teachers of the State—the reasonableness of which has long been recognized by your honorable body. Young men and young women who are to take that active and potential part in public life which ought to be taken by all well-trained and intelligent citizens—and which must be taken by them if the republic is to endure—need to have some definite knowledge of the history of education, the philosophy of education, and the best methods of education, if they are to act intelligently and helpfully in connection with the educational interests of the communities of which they are a part. In addition to this, those graduates of the University who are to follow the profession of teaching will find it more and more a profession in fact as well as in name; a profession the preparation for which demands special and technical training. This Department of Pedagogy is not meant to take the place nor do the work of a Normal School—of which Ohio needs several; but under the direction

of Professor J. P. Gordy, whom you called to this chair, it is entirely safe to expect that the department will rapidly advance in importance and will be recognized as one of the strongest in the University.

The Department of Domestic Science has been in equal demand, and would have been established some years ago had funds permitted. To-day among all classes of educators there is a very clear recognition of the place and value of this work. It was one of the most important phases of that branch of education in which the late ex-President Hayes was so deeply interested; and provision was made for it, as far as rooms were concerned, at the time of the erection of the building which still bears his name. The Faculty has established both a four years course, leading to an appropriate degree; and a short course, for those who for any reason are unable to complete all work required for the degree. The course will open in September of the present year, though the work of the department proper does not begin until the second year of the course, and so will not be undertaken until September, 1897. During the winter or in the early spring I will nominate to your honorable body a suitable person for this chair.

CHANGES IN THE FACULTY.

Many of the changes in the Faculty during the academic year which has just closed were noted in the last report of my predecessor, and need not be reviewed here. Professor Norton S. Townshend, Professor *Emeritus* of Agriculture, died July 13, 1895—closing a life full of overflowing with unselfish and intelligent effort for his fellowmen. You have already spread upon your records and made public your keen appreciation of his service to the University, to the State, and to the Nation.

Because of continual ill-health and the pressure of private affairs, Professor Stillman W. Robinson, for several years at the head of the Department of Mechanical Engineering, resigned his position late in the summer of 1895. It was too late in the educational year to make a successful effort to fill his place; but at mid-winter Professor William T. Magruder, then of Vanderbilt University, Nashville, Tennessee, was chosen to fill the vacancy caused by his resignation. Professor Magruder will take up his work in September of this year. During the year just closed the work of the department has been carried by Assistant Professor Hitchcock, with the help of Professor Williston and Mr. Swartzel. Professor Magruder brings to his work special training, large experience, and unusual success. For a few years to come, the department will need your special favor as far as appropriations are concerned, in order that it may recover its relative position and make good the necessary loss which has come to it during the last two years because of being practically without a director.

Before the opening of the academic year Mr. Horace L. Wilgus, Instructor in Elementary Law and Secretary of the Faculty of the School of Law, received a call to Ann Arbor, which he accepted. Mr. DeWitt Goodrich, who had been Assistant in Dairy Husbandry, also withdrew to accept a more advantageous offer elsewhere; and just at the close of the year Mr. Frank B. Combs, Forge Master in the department of Industrial Arts, withdrew. To replace Mr. Goodrich we were fortunate enough to secure Mr. H. T. Noyes, of Richland City, Wisconsin, one of the most successful dairymen and instructors in the country.

Later in the year the Board gave very worthy recognition to Assistant Professor Frank A. Ray by advancing him to the position of Associate Professor of Mine Engineering.

POST-GRADUATES AS INSTRUCTORS.

As the pressure of increased attendance made itself felt it was found necessary to increase the number of laboratory assistants and division masters. R. O. Keiser, William L. Evans and R. M. Hughes were made Laboratory Assistants in General Chemistry; Frank Haas became Laboratory Assistant in Metallurgy; F. E. Kester and George H. Calkins were appointed Laboratory Assistants in Physics; William L. Graves was appointed Assistant in Rhetoric and English Language. All these are graduates of this University. It is always a privilege to thus recognize the ability of our own alumni. There can be no question as to the wisdom of your honorable body in establishing fellowships in connection with work in the different departments. It is entirely proper that all reasonable means should be taken to enlarge the number of post-graduates. Men who have gone through our departments with credit are well fitted to direct the more simple laboratory work of our younger undergraduates, and to undertake other similar duties while studying for their second degrees. The plan of giving half time to these University duties and half time to post-graduate studies has proven an excellent one. It is not wise, however, to continue the attendance of a graduate upon this University after his second degree has been secured, until he has had opportunity for further experience and training. Six years of continuous study in one institution, under one Faculty, and under but slightly varying conditions are all that should be given to such consecutive effort. If the alumnus is to enter upon a profession or to take up any calling in life he should then begin his special preparation for that calling. If he is seeking a third degree it is better for him that he seek it elsewhere. The change of condition and environment is sure to inure to his advantage. The University authorities should positively discourage the continuous work of a student after his second post-graduate year.

Nor should a post graduate, unless manifesting peculiar characteristics and unless having had special training in the methods and philosophy of education, be employed as an instructor. Young men and young women who present themselves at the University do so with the distinct understanding that they are to come under the influence, direction and instruction of mature instructors peculiarly fitted for their work. It is not right that they should be placed in the hands of men who have had no special preparation for teaching, and no experience in such work. I know it is customary in some institutions to carry a large amount of instructional work with post-graduate assistance—and some even use members of their senior classes; but the policy is certainly wrong in theory, and works an injustice to those who enroll themselves as students in the institution. No institution can follow this policy without very essentially weakening its influence and lowering its general standards. It is to be understood of course that this University gives to its graduates both general and special training far beyond what they can secure almost anywhere else in this State; but before they enter upon the work of instruction in University courses they should certainly have more experience and more maturity than is true of most graduates who are so employed.

DEGREES CONFERRED, 1896.

The number of degrees conferred at the last Commencement are as follows:

Bachelor of Arts, 13; Bachelor of Philosophy, 26; Bachelor of Science, 4; Bachelor of Science in Agriculture, 4; Bachelor of Science in Horticulture and Forestry, 1; Civil Engineering, 11; Mechanical Engineering, 4; Electrical Engineering, 17; Engineer of Mines, 6; Graduate in Pharmacy, 12; Doctor of Veterinary Medicine, 2; Bachelor of Laws, 6; Master of Science, 5; Master in Pharmacy, 1; Master of Laws, 6; total, 118.

LEGISLATIVE ACTION.

The friends of the University, the friends of sound learning and of higher education throughout the State, and all citizens of the State, are to be warmly congratulated upon the success of your honorable body in the presentation of the needs of the University to the last Legislature. The action of the Assembly in doubling the income of the University and in allowing your honorable body to anticipate a large portion of this income in order to erect very necessary buildings, was certainly wise and patriotic in the extreme. As none but favorable criticism followed the enactment of what is known as the "first Hysell Law," so you may be sure that nothing but satisfaction and even pride will follow the administration of these larger revenues. We are still far behind the Universities

of other states, institutions which we accept as excellent expressions of what this University ought to be; but we now have every reason to expect and to believe that revenues and necessities will keep even step. As I have been through the State during the latter part of the academic year, I have heard nothing but words of praise and of intense satisfaction at this legislative action.

THE UNIVERSITY AND THE PUBLIC SCHOOLS.

In this connection it seems proper to state at some length the proper relations of the State University to the public school system of Ohio. It is well to advance at the outset the proposition that as educators we of the Ohio State University are dealing with Ohio men and women, with Ohio children, with Ohio public schools, and with Ohio interests. Some may think that this point of view is narrow and provincial, that it has not the true scholarly outlook. We can well afford to pass such criticism without notice, firm in the conviction that that is the truest and best life which does not neglect nor ignore present relations for a possibly larger future. If the daily life of the great common people of this State can be made strong and intelligent and clear, the future of this institution and of public education can be trusted to care for itself. *If the demands of the present are wisely met, the refinements of art and literature, the subtleties of philosophy and the marvels of science are all the more sure to come. If we seek first the welfare and advancement of the masses, if we labor faithfully and intelligently and unselfishly for the State in which and for which we ought to live, if our daily care and anxiety is for the growth and progress of the whole people—all other things will be added fast enough and surely enough.

Of course, no one can forget the past, much less despise it. And no one can afford to disregard the work of his contemporaries. He must keep close touch and sympathetic touch with all fellow workers. No one can with safety neglect the comparative study of administration and movement in his own chosen field. But when all this is done, the work of the University must be our own, adapted to the peculiar conditions of the task which is set before us—which must in many particulars differ from the task of every other institution. In this adaption, this adjustment, this modification, this choice of ends and means, is shown skill and is proven worthiness. It is true, that while we keep in mind Ohio in 1896, we must have an eye for Ohio in 1996 and in 2996, if you please; but our particular work and our best work must necessarily be in Ohio in 1896. If that work is well and wisely done we need have little anxiety about future decades. There will undoubtedly be some wise and earnest men and women in Ohio in the years that are to come; these will care

for all the work that we necessarily leave unfinished. So it is not a question of what is being done by Germany and the German schools, or by Harvard and by the Massachusetts schools, or by Yale and by the Connecticut schools, or by Columbia and by the New York schools; but what can be done here and now by the Ohio State University and by the Ohio public schools. The Ohio State University must be, ought to be, and will be for Ohio what either of the institutions named is for its own constituency—it is that already, and something more; but it will not be these institutions simply transplanted.

A public school system worthy of the name will freely offer every opportunity and inducement to the entire school population to pass by systematic methods, easily apprehended by those who are to receive the benefits, in schools under popular control, from the lowest seat in the primary school to graduation by a university of high standing. It is certainly unnecessary for me to waste time or words here over the desirability and necessity of education, of State aid to education, of State control of education, of public education in the largest and best sense of these words—from lowest to highest. Such a discussion would be emphatically out of date. All the instincts of western civilization have made and are making this a land of public and not private schools, of *free* schools and not *fee* schools. The reasons for this are clear and unanswerable. With us in America this public education has taken three forms: the district and graded schools, the city High Schools and the State University. To this may be added a fourth form, that of the Normal Schools and other technical and special schools which form a part of the system of higher education as carried on by many of the states. But the three leading forms have, in these middle and western states at least, such a thorough hold upon our people, are so well understood in all their details, have become such a part of our public life, have been supported so long and so liberally by public taxation and in their results have proven in every respect such a good investment, that they pass unchallenged to a permanent place in our public policy.

From this brief statement it will be seen that the University cannot be regarded as an independent and isolated institution, but is an integral part of the State system. The first thought, therefore, in presenting the exact question at issue, the first relation noticed, is the inherent dependence of the University upon the State system—a system which is still imperfect and with limitations. Standing at the head of this system, it is necessarily a part of it. The years which it devotes to instruction are but so many added grades in school work and in the State system. It cannot be divorced from the State system. To a large extent it must share

its limitations and imperfections. It is false to its trust the moment it breaks connection with the schools below. This does not mean that it may not lead, that it may not be in advance of the lower schools, but that it must keep touch with the lower schools.

Again, the University constantly offers an incentive to more and better work in the lower schools, especially in the intermediate or High Schools. A system without good High Schools is no more a system than if the higher work of the University were unknown. At the outset in this State, as in most of the states, it seemed necessary for the University to furnish everything not possible in the common or district schools; hence came the preparatory courses. The great difficulty which attends such courses lies not in establishing them, but in getting rid of them in after years. This is shown by the fact that five-sixths of all the so-called colleges and universities in the United States still continue preparatory work in some form. But every college and university worthy of the name will throw off such work as rapidly as possible, sending it back to the several communities where it properly belongs, both for the sake of the communities and for the sake of higher education. Every preparatory department maintained by a college or university is a direct thrust at every High School and Academy. Higher institutions should use their funds for the purpose for which they were given—higher education. Secondary education ought to have the same characteristics that have given primary education its strength and its hold upon the people; that is, the schools should be free schools and not fee schools, they should be as near as possible to the homes of those to whom they minister, those whose children are to receive the benefits of this instruction should participate in the control and management of these schools, the establishing and maintenance of such schools should be not haphazard—that is, a matter of accident or of convenience or of private benevolence; but should be public, fixed, sure and systematic.

The University offers constant incentive to these secondary or High Schools to do sound work and work that will be approved when put to the most rigid test—that of results. Of course, it is not the first duty of public High Schools to be preparatory schools. Their first duty is to the many students who can go no further than the home school. But the fact remains that if these secondary schools are doing the work which they ought to do, as they ought to do it, as home schools and for the home demand, two results will be secured; not to the University, but through the University to the community and to the State. First, many students will have the inclination to enter the University, and having the inclination will find the means. Second, desiring to do this they will find themselves fully equipped to move forward easily and without the embarrassment

and discouragement which always follow want of preparation for a new task.

The third relation which the University sustains to the lower schools is that of a definite and approved standard by which to measure the work and progress of such schools. One of the very worst features of many city High Schools to-day is the fact that they are so often content to be nothing but finishing schools. One as wise as United States Commissioner Harris thinks that the entire nation, and especially our cities, are suffering from a deficiency in college-educated men, and that this is largely due to the fact that the High School aspires to be a sort of finishing school. Its teachers do not keep before their pupils the desirability of entering the University after leaving the High School. In consequence of this the senior year of the High School is inferior in its educational influence to the other years, because the pupils so generally consider it their last year. Whereas the senior year would be by all means the most valuable in its effects if it were known to be the last preparatory year, because there exists a strong tension of effort to fit one's self to pass examinations for the University. Mr. Harris thinks that it would be a great advantage to the pupils of the High Schools if each were required to choose at the beginning of the senior year some college whose entrance examinations they were to pass as a condition of receiving the diploma of the High School—whether they intended entering college or not. Their efforts during the year to qualify themselves to enter would be exceedingly stimulating. The State University, as an integral part of the State system, recognized as the next step beyond and above the High School, has a value as setting a standard and offering an incentive to this strong work throughout the entire High School course—a value that cannot be over-estimated.

So also it is true that the University is the source of peculiar inspiration to both teachers and pupils in lower grades. The tendency in lower schools seems to be to repeat subjects with but little real advancement and so to restrict the field of inquiry; or else to go over broad fields content with the merest smattering of many things. As far as this tendency is the result of public demand it is largely because the High Schools themselves so often fail to place before the public the problem of education in its just proportions. Nothing so quickens in the teacher and pupil, and through these in the general public, a proper appreciation of the form and scope and power of true education; nothing so kindles the aspirations of an entire community; as this constant and clearly recognized contact with a properly constituted and wisely related University, which insists quietly but firmly upon high standards of excellence as preparatory to its own work; and which at the same time so performs its own work as to make the value of the institution practically recognized

in every corner of the State. This closeness of relationship runs down through the High Schools to the graded schools and even to the common schools below. As some one quaintly puts it: "Take away the incentive, make the common school or the grammar school an end in itself with no outlook beyond, the High School the same, the University the same,—and you at once engender in each sluggishness, unproductiveness, individualism, aloofness, and barren pride." It may be well for us University people to remember that this is just as true of the University out of relationship with the lower schools, as it is true of the commonest district schools out of all possible relationship with higher work.

I pass in a single paragraph the relationship of the University to the public school by which it provides that special stimulus and opportunity for individual development by which the broadest and best minds are brought into trained and useful activity; the work and influence of University men and women in the communities to which they return and in which they take up citizen life; the University as a source of knowledge and information which, while broad and accurate and special and profound, is still held in such a spirit of helpfulness as to be of the greatest possible advantage to all people and especially to the lower schools; and above all, the power of the University to continually conserve and intensify the idea of democratic equality which is first known in the earliest years of public school life. All these are parts of this discussion capable of almost unlimited expansion in behalf and in defense of the institution which we serve and through which we serve the people of this State.

The place and function of the State University, therefore, especially in its relations to the public school system of this State, is as the head of that system yet constantly subservient to all the members; furnishing a standard and an inspiration to all lower schools; the foster-mother of secondary education; advancing knowledge secured under wise and conservative methods that have for their first result *accuracy*; distributing freely the knowledge thus attained; giving to all earnest students the inspiration to be caught from the character and zeal and intensity of its teaching force; with an equipment which may round the whole circle of ascertained knowledge; pervaded by that true scholarly spirit which is tempered by a constant recognition of personal and institutional relations; furnishing the best intellectual discipline combined with the largest practical power—the hold on ideas combined with a hold on affairs; securing the liberty of investigation which is the very life of all intellectual progress; touching the mass of State High Schools by helpful connection even though sacrificing something of its own ambition and withdrawing itself somewhat from a recognition abroad that would be

grateful in the extreme; offering opportunity and inducement to students to push on in under-graduate courses arranged with a view both to mental growth and to what they will directly need in their coming active life, and in post-graduate courses that will fling open the door of all human knowledge; content to find its highest present reward in the honor and esteem of its own perhaps humble constituency rather than in the plaudits of a more exclusive world. Such an institution, founded in unselfish endeavor, full of magnificent scheming and crowned with enthusiasm, will prove the most powerful factor in hastening the day of that last and best and grandest work of man, a free government in the hands of an educated democracy.

CONCLUSION.

In conclusion I desire to express my keen appreciation of all the many courtesies extended to me by your honorable body, and of the constant and loyal co-operation of the Faculty and students. The earnestness, fidelity and manly and womanly character of the students of this University lighten all executive labors and give new zest and full reward to all toil.

Very respectfully,

JAMES H. CANFIELD.

TABLE I—THE WORK OF INSTRUCTION, 1895-1896.

Subjects.	* Hours per week.			No. of students.		
	First term.	Second term.	Third term.	First term.	Second term.	Third term.
AGRICULTURE.						
Farm Equipment.....	3			21		
Soils		3			22	
Farm crops			3			18
Breeds of Live Stock.....	4			21		
Stock Breeding.....		4			18	
Stock Feeding and Hygiene.....			4			17
Dairy Farming.....		3			8	
Butter Making and Cheese Mak'g, Laboratory..		8			10	
" " Lectures		2			26	
" " Laboratory..		8			18	
AGRICULTURAL CHEMISTRY.						
Principles, Nomenclature, Qualitative Analysis.....	5			35		
Organic Chemistry, Qualitative Analysis		5			20	
Application of Chemistry to Agriculture			5			15
Analytical Chemistry.....		5			4	
Analysis of fertilizers, feeding stuffs, etc.....	3	3	3	15	14	11
Manufacture of starch, sugar, glucose, vinegar, etc	5	2	5	3	6	3
Advanced Agricultural Chemistry	5	5	5	1	2	2
ANATOMY AND PHYSIOLOGY.						
Human Anatomy and Physiology.....	3	3	3	85	72	70
Apparatus and Methods of Demonstration....	3			8		
Dissection and Bacteriological Study.....		3			8	
Physiological Chemistry			3			7
Histology	5	5	5	2	2	2
Microscopy			2			27
Bacteria in milk, butter and cheese		2			28	
ASTRONOMY.						
Descriptive Astronomy			5			14
Practical Astronomy.....			4			12
Geodetic Surveying.....	3			15		
Observatory Work.....		2			15	
BOTANY.						
Elementary—Structural and systematic			5			49
Systematic Botany and Vegetable Physiology..	3			15		
Cryptogamic Botany.....		2			13	
Physiological Botany.....	5			39		
Economic Botany.....		5			14	

*In drawing, field-work and laboratory work one hour's credit is two hours by the clock. Where the number of hours per week exceeds five, it will be understood that there are two (or more) divisions of the class. This is also (generally) true where the number of students exceeds thirty.

TABLE I—THE WORK OF INSTRUCTION—Continued.

Subjects.	*Hours per week.			No. of students.		
	First term.	Second term.	Third term.	First term.	Second term.	Third term.
BOTANY—Continued.						
Vegetable Pathology.....			5			10
Medical Botany.....	2	2		14	13	
Advanced Laboratory Work.....	5	5	5	4	4	6
CIVIL ENGINEERING.						
Land Surveying.....	6			22		
Topographical Surveying.....	4			14		
Railroad Surveying.....			6			22
Platting, pen and color topography.....		4			23	
Working Drawings and Blue-printing.....		3			9	
Stereotomy.....		4			12	
Bridge Strains.....			5			23
Bridge Designing.....	5			10		
Masonry Construction.....	5			12		
Highways, Canals, Railway location, Irrigation.....		5			10	
Water Supply.....			5			11
Sanitary Engineering.....			5			13
Field Measurements.....		5			18	
Cement Testing, Engineering instruments, etc.....		2			11	
CLAYWORKING AND CERAMICS.						
Analysis of clays, feldspars and cements.....	5			8		
Analysis of pottery bodies.....		5			7	
Analysis of glazes, enamels and ceramic colors.....			5			7
Origin and properties of clays, etc.....	5			8		
The compounding of clay mixtures, etc.....		5			7	
The compounding of glazes, enamels, etc.....			5			7
Special advanced laboratory work.....	5	5	5	1	1	1
DRAWING.						
Freehand work; with charcoal, crayon & pen.....	1	1	1	101	92	29
Lettering.....			2			86
Mechanical Drawing.....	3			35		
Shades, Shadows and Perspective.....		4	3		36	29
Descriptive Geometry.....	4			38		
Draughting and Blue-printing.....		3			4	
Detail drawing, Machine design.....	3			32		
Photography.....	2		2	20		16
Geometric and Projection drawing.....	2	2	2	6	10	8
Mechanical drawing.....	2		5	25		8
ELECTRICAL ENGINEERING.						
Dynamo-electric Machinery, etc.....	5	5	3	19	19	18
Machine Design.....	3	3	5	20	18	17

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TABLE I—THE WORK OF INSTRUCTION—Continued.

Subjects.	*Hours per week.			No. of students.		
	First term.	Second term.	Third term.	First term.	Second term.	Third term.
ELECTRICAL ENGINEERING—Continued.						
Laboratory work	6	6	6	19	19	18
Advanced work in Physical and Electrical Laboratories	2	2	2	5	5	5
ELOCUTION AND ORATORY.						
Articulation, pronunciation, emphasis	2	.....	.....	60	.....	.....
Force, stress, movement, rhythm .....	.....	2	.....	.....	53	.....
Melody, cadence, tone-color .....	.....	.....	2	.....	.....	61
Sight-reading, Bible and hymn-reading	2	.....	.....	15	.....	.....
Rostrum work, extempore speaking .....	.....	2	.....	.....	14	.....
Oratorical action, with debates, etc .....	.....	.....	2	.....	.....	13
ENGLISH LITERATURE.						
General Survey from Chaucer	2	2	2	79	85	84
The Drama—to the closing of the theaters	3	3	3	13	15	14
The Drama—since the restoration	3	3	3	3	5	5
From Dryden to Johnson	3	2	2	12	12	13
CHEMISTRY.						
The non-metals	4	.....	.....	67	.....	.....
The metals .....	.....	2	.....	.....	70	.....
Qualitative Analysis .....	.....	.....	4	.....	.....	48
Qualitative Analysis	5	.....	.....	29	.....	.....
Quantitative Analysis—Gravimetric .....	.....	5	.....	.....	23	.....
Quantitative Analysis—Gravimetric and Volumetric .....	.....	.....	5	.....	.....	23
Laboratory work—original investigation	5	5	5	6	6	5
Elementary work (Engineering Courses)	5	5	.....	90	95	.....
Stoichiometry	1	.....	.....	15	.....	.....
Toxicology .....	.....	.....	2	.....	.....	23
Qualitative Analysis (Ceramics) .....	.....	.....	5	.....	.....	18
GEOLOGY.						
Dynamical and Structural Geology	5	5	.....	47	35	.....
Physical Geography .....	.....	.....	5	.....	.....	25
Economic Geology .....	.....	5	.....	.....	26	.....
Elementary work (Short Mining Course) .....	.....	5	.....	.....	6	.....
Petrography	3	.....	3	2	.....	1
Paleontology	3	3	3	1	4	5
GERMAN LANGUAGE AND LITERATURE.						
Elementary work	5	5	5	164	129	114
Scientific Reading	2	2	2	26	19	14

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TABLE I—THE WORK OF INSTRUCTION—Continued.

Subjects.	*Hours per week.			No. of students.		
	First term.	Second term.	Third term.	First term.	Second term.	Third term.
GERMAN LANGUAGE AND LITERATURE—Cont.						
Poetry	3	3	3	19	20	16
The Drama and Prose.....	3	3	3	16	15	12
Faust	2	2	2	3	3	3
GREEK LANGUAGE AND LITERATURE.						
Elementary.....	5	5	5	27	20	18
Xenophon, Heroditus, Homer	3	3	3	25	27	27
History, Philo-ophy, Oratory.....	3	3	3	13	13	15
Epic Poetry, Drama, Satire.....	3	3	3	15	15	15
Ancient Art.....	2	2	2	9	8	13
HISTORY AND POLITICAL SCIENCE.						
Medieval History	2	2	2	13	11	9
Modern History, History of Civilization.....	3	3	3	22	14	12
Political, Constitutional and Industrial History of England.....	3	3	3	24	24	25
U. S. Constitutional and Political History.....	2	2	2	38	37	38
Seminary in American History.....	2	2	2	7	20	6
The Protestant Reformation.....	3	3	..	4	4	.....
The French Revolution.....	..	3	..	..	4	.....
U. S. Political History.....	2	2	2	53	46	41
Political Economy.....	2	2	2	85	77	72
Advanced Economies.....	2	2	2	20	20	20
Development of Industrial Society.....	3	..	..	9	..	..
Socialism .....	..	3	3	..	8	8
International Law.....	2	2	..	17	18	..
Municipal Government .....	..	..	2	..	..	18
U. S. Political Institutions.....	3	..	..	14	..	..
Comparative Political Institutions of Europe and America.....	..	3	3	..	13	13
HORTICULTURE AND FORESTRY.						
Location, soils, drainage, etc.....	3	..	..	22	..	..
Propogation, pruning, training, fungus diseases .....	..	3	..	..	16	..
Germination, budding, grafting, cross-fertilizing.....	..	..	5	..	..	17
Pomology and Viticulture.....	5	..	..	5	..	..
Vegetable-gardening and seed-growing.....	..	5	..	..	6	..
Small fruit culture.....	..	..	5	..	..	3
Arboriculture, Forestry, Landscape-Gardening	3	3	3	4	2	2
Floriculture	2	2	2	4	2	3
INDUSTRIAL ARTS.						
Carpentry and Pattern-making	3	3	3	22	30	43
Forging	7	5	6	26	22	18
Vise-work, metal-turning, machine-work.....	9	9	10	27	56	61

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TABLE I—THE WORK OF INSTRUCTION—Continued.

Subjects.	* Hours per week.			No. of students.		
	First term.	Second term.	Third term.	First term.	Second term.	Third term.
LATIN.						
† Preparatory	5	5	5	27	19	17
Pharmaceutical	5	5	3	23	25	23
Cicero, Livy, Horace	5	5	5	46	44	43
Tacitus, Cicero, Horace	5	5	5	30	30	28
Antiquities	2	2	2	10	9	8
Dramatic Poetry	3	3	3	6	7	6
MATHEMATICS.						
Algebra—Elementary	10	5	5	29	11	12
Geometry	5	5	5	21	35	.....
Trigonometry	3, 5	.....	5	182	.....	53
Higher Algebra .....	.....	3, 5	.....	.....	141	.....
Analytical Geometry	5	.....	3, 5	76	.....	126
Calculus .....	.....	5	5	.....	76	69
Least Squares	2	.....	.....	35	.....	.....
Advanced Mathematics	10	10	10	8	7	9
Elements of Modern Geometry .....	.....	2	.....	.....	11	.....
MECHANICAL ENGINEERING.						
Experimental Engineering	10	17	12	19	36	25
Mechanism	2	8	4	36	36	13
Engine Designing .....	.....	.....	5	.....	.....	5
Thermodynamics	5	.....	.....	22	.....	.....
Prime Movers .....	.....	5	.....	.....	22	.....
Machinery and Mill-work .....	.....	.....	5	.....	.....	21
Machine Design .....	.....	.....	5	.....	.....	31
Analytical Mechanics	5	5	.....	56	55	.....
MILITARY SCIENCE AND TACTICS.						
Cadet Service	5	.....	5	273	.....	215
Tactics	2	2	.....	30	29	.....
Art of War	2	2	.....	49	48	.....
Military Telegraphy	5	5	4	† 8	† 8	† 4
Signal Service .....	.....	.....	4	.....	.....	† 8
MINE ENGINEERING.						
Mine Surveying	10	.....	.....	10	.....	.....
Ventilation and Haulage	5	6
Mine Operating	5	4
Mining machinery, shaft-sinking, etc	5	5	5	3	5	4

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† Dropped with all other preparatory work at the close of the University year 1895-1896.

‡ Per week—detail.

TABLE I—THE WORK OF INSTRUCTION—Continued.

Subjects.	* Hours per week.			No. of students.		
	First term.	Second term.	Third term.	First term.	Second term.	Third term.
MINERALOGY AND METALLURGY.						
Metallurgy	5	5	.....	14	14	.....
Metallurgical Laboratory	5	5	5	16	20	18
Mineral Chemistry	5	2	5	8	3	3
Metallurgical Construction.....	3	3	.....	4	2	.....
Mineralogy .....	.....	3	3	.....	58	42
Assaying .....	.....	2	.....	.....	11	.....
Determinative Mineralogy .....	.....	.....	3	.....	.....	12
Ore Dressing .....	.....	.....	5	.....	.....	7
PHARMACY.						
General Pharmaceutical Processes	3	7	7	26	48	48
Pharmaceutical Chemistry.....	2	4	5	14	15	15
Materia Medica and Therapeutics.....	3	3	3	16	15	15
Special Advanced Work	5	5	5	2	2	2
PHILOSOPHY.						
The Senses and the Intellect.....	3	.....	.....	34	.....	.....
The Feelings and the Will .....	.....	3	.....	.....	32	.....
Ethics.....	3	.....	3	24	.....	30
Logic	3	3	2	32	31	37
History of Philosophy	3	3	6	19	18	48
Psychology	2	2	.....	48	47	.....
Advanced work.....	2	2	.....	2	2	.....
PHYSICS.						
Elementary Experimental Physics.....	10	10	.....	122	70	.....
Mechanics and Heat.....	3	.....	.....	82	.....	.....
Electricity and Magnetism.....	.....	3	.....	.....	73	.....
Sound and Light.....	.....	.....	3	.....	.....	77
Problems and Practice work.....	2	2	2	33	32	33
Advanced Electricity and Magnetism	3	.....	.....	24	.....	.....
Laboratory and Practice Work.....	.....	5	5	.....	53	52
RHETORIC AND ENGLISH LANGUAGE.						
Paragraph Writing.....	12	.....	.....	218	.....	.....
Theme Writing.....	.....	12	.....	.....	183	.....
Elementary Rhetoric .....	.....	.....	10	.....	.....	174
The Science of Rhetoric.....	4	4	4	81	76	73
Principles of Style.....	4	.....	.....	62	.....	.....
Principles of Construction.....	.....	4	.....	.....	62	.....
Principles of Presentation.....	.....	4	.....	.....	.....	70
Advanced Composition—Practice & Criticism..	4	4	4	19	19	18
Newspaper work and Brief-making	2	2	2	10	10	14
Old English Prose and Poetry.....	2	2	2	14	13	13
Early and Middle English	2	2	.....	2	2	.....

* In drawing, field-work and laboratory work one hour's credit is two hours by the clock. Where the number of hours per week exceeds five, it will be understood that there are two (or more) divisions of the class. This is also (generally) true where the number of students exceeds thirty.

TABLE I—THE WORK OF INSTRUCTION—Concluded.

Subjects.	*Hours per week.			No. of students.		
	First term.	Second term.	Third term.	First term.	Second term.	Third term.
ROMANCE LANGUAGES.						
Elementary French.....	15	15	15	134	110	110
Modern French Literature.....	3	3	3	38	36	35
Science Reading—French.....	2	2	2	32	30	29
The French Drama.....	3	3	3	10	10	10
Specific Subjects and Epochs.....	3	3	3	14	12	12
Spanish Grammar and Reading.....	2	2	2	22	20	19
VETERINARY MEDICINE.						
Veterinary Anatomy.....	3	5	3	12	12	14
General Pathology.....	3			18		
Special Pathology.....		3			20	
Therapeutics.....			3			9
Sporadic Diseases.....	3	3		3	2	
Anatomical Laboratory.....		3			2	
Surgical Diseases and Operations.....	5	5	5	9	9	9
Obstetrics.....			5			9
Principles of Horse-Shoeing.....			3			8
Hospital Clinics.....	6	6	6	12	11	11
Advanced Therapeutics.....			5			2
ZOOLOGY AND ENTOMOLOGY.						
Systematic Zoology.....	3	3	3	28	27	27
Laboratory work.....	20	16	26	7	6	6
Comparative Osteology.....	11			12		
Myology and Neurology.....		13			10	
Critical Study of Vertebrates.....			6			10
Economic Entomology.....	10	5	14	2	1	23
Advanced Entomology.....		12	5		1	1
Systematic Zoology.....			3			18

* In drawing, field-work and laboratory work one hour's credit is two hours by the clock. Where the number of hours per week exceeds five, it will be understood that there are two (or more) divisions of the class. This is also (generally) true where the number of students exceeds thirty.

TABLE II.

SHOWING THE WHOLE NUMBER OF DEGREES IN COURSE CONFERRED SINCE THE
FOUNDING OF THE UNIVERSITY.

	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.
Bachelor of arts.....	1	1	6	2	2	1	5	4	6	8	6	1	7	2	6	9	12	19	13
Bachelor of philosophy.....				2		2	2	1	1	2	6	7	4	8	8	5	5	19	26
Bachelor of science.....	5	5	1	2	5	3	2	4	2	4	4	8	2	10	7	11	7	9	4
Bachelor of science in agriculture.....								1	1				2	3				2	4
Bachelor of science in H and F.....																1	3	1	1
Civil engineer.....						1	1	1	3	3	4	1	2	2	7	9	7	9	11
Mechanical engineer.....			1		2	4	1	3	1	2	4	2	3	2	5	2	1	2	4
Electrical engineer.....															4	9	8	15	17
Engineer of mines.....			1	1			1	2	4	1	4	2			1	1	4	1	6
Graduate in pharmacy.....										3			2	3	6	5	5	3	11
Master of pharmacy.....																			1
Doctor of veterinary medicine.....										1			1	4		4	5		4
Master of arts.....												1	1	1	2			2	
Master of science.....				1								1	1	2	2		2		3
Master of agriculture.....																		1	2
Doctor of philosophy.....	1																1		
Doctor of science.....													1					1	
Bachelor of laws.....															9	18	15	16	6
Master of laws.....															2	4	2		6
Totals.....	6	7	9	8	9	11	12	16	18	24	28	26	30	36	65	79	70	112	118

TABLE III.

SHOWING THE NUMBER OF STUDENTS IN THE GENERAL, TECHNICAL, AND PROFESSIONAL COURSES

	1890-91.	1891-92.	1892-93.	1893-94.	1894-95.	1895-96.
General courses.....	137	151	194	245	256	322
Technical courses.....	166	259	381	368	424	453
Professional courses.....	.....	55	67	72	65	100
*Unclassified and graduate students.....	2	.....	.....	1	.....	94
Totals	305	465	642	686	745	969

* Until this report, graduate students have been included in the first three classes.

CONDENSED REPORTS

OF

INVESTIGATION AND RESEARCH,

September 1, 1896.

REPORTS OF INVESTIGATION AND RESEARCH.

AGRICULTURE.

Professor Hunt calls attention to the work in plant production, including soils and soil physics, as a very important work and one to which much original research must be given. He has placed this in the hands of Professor Gibbs and hopes to give the subject new prominence.

Two valuable theses have been prepared in this department: one on "The Relative Feeding Value of the Corn Plant at Different Stages of Ripeness," by Delbert A. Crouner, and the other on "The Draft of Farm Implements," by Philip L. Pfarr. A thesis on "The Comparative Food Value of Wheat for Pigs" was prepared by Frank Ruhlen; partly in Agriculture and partly in the department of Agricultural Chemistry. Portions of these theses are of sufficient value to warrant printing.

The department has continued to conduct the fertilizing experiments on wheat, oats, and corn; and an experiment on the rotation of crops for the Ohio Agricultural Experiment Station. Incidental to the work of instruction, experimental work has been carried by the department, of the effect of certain foods upon milk production and upon pork production; the effect of fertilizers upon soil moisture; the study of certain problems connected with intensive agriculture; the effect of sub-soiling upon soil moisture and the production of corn; and the treatment of wheat for the prevention of smut. It is impossible, however, with the means at the disposal of this department to make anything like an exhaustive study of these subjects. As long as the farm has no other income than that obtained from the sale of produce, experimental work must be incidental to instructional work.

AGRICULTURAL CHEMISTRY.

In this department was completed a laborious series of experiments to determine the action of coal tar colors, commonly used in coloring food, upon the process of digestion. The results were presented to the Chemical section of the American Association for the Advancement of Science at the Buffalo meeting in August, and will be published in the journal of the American Chemical Society.

ARCHÆOLOGY.

This department has more than doubled its collection of various prehistoric objects during the year. It has received three large collections on loan, about two thousand specimens by donation, about four thousand specimens by purchase; and has excavated from ancient mounds, graves and village sites, about fourteen hundred different objects. The total number of specimens now either owned by or loaned to the University is not far from twenty thousand. This does not include the collections of the Ohio Archæological and Historical Society or of the Ohio Academy of Science.

During the past spring and summer more than fifty ancient mounds were thoroughly excavated. The field work was largely confined to the valley of Brush creek in Adams county, and was continued along the Ohio river. A forthcoming report of the department will contain illustrated descriptions of the character of the finds and their interpretations.

Dr. Thomas Wilson, of the Smithsonian Institution, who examined our museum in August, said that in spite of small appropriations we had done more field work in Ohio since our organization than any of the eastern museums in the same time in this field; and that the total collections exhibited a higher rate of increase in proportion to revenue than in any of the eastern museums; not excepting his own.

ASTRONOMY.

Professor Lord reports that his first work after the site of the building was chosen was the completion of a system of triangulation which gives the following co-ordinates of the center of the cap stone of the transit pier:

Latitude, 39 hours, 59 minutes, 50.21 seconds.

Longitude west of Greenwich, 15 hours, 30 minutes, 02.60 seconds.

The top of the transit pier was found to be seven hundred and sixty-three feet above sea level.

There has been constant work in the Observatory since the building was completed and the equipment in place. The building is open to the

public on the evenings of the first and third Wednesdays of each month ; admission being by tickets to be had for the asking at either of the offices of the University. It is necessary to limit the number of tickets for each evening to fifty.

BOTANY.

Large additions have been made to the State herbarium, the total number of specimens now exceeding five thousand. The usual additions by collection and exchange have been made to the general herbarium.

CERAMICS.

The work of this department outside of instruction and laboratory practice has been chiefly verifying and practicing upon the work of the German leaders. The department will continue along this line until it has made sure that they are fully up to date with the best facts that are known. This department unites with the National Association of Brick Makers in systematic tests of the proper methods of testing paving brick. This work is not yet complete. The report will be filed later.

CIVIL ENGINEERING.

The Ohio State University is the only institution that has been represented every year in the list of successful contestants in the Engineering News "Thesis Contest." The joint thesis presented by Frank Haas and John Alexander McGrew for graduation in 1895, was awarded second place in last year's contest.

CHEMISTRY.

Research work during the past year has been along two lines; Calorimetric Methods in Water Analysis; and the Constitution of Certain Organic Dyes.

Final report upon this will be ready early in the next calendar year. Preliminary reports have already been published in the journals interested in this work.

DRAWING.

Following announcements of the discovery of X rays and that their source was the "Crooke's Tube," came many reports that X rays existed in many forms of light. In connection with the photographic work of this department a series of experiments was made to verify or contradict these reports. The results proved conclusively that X rays do not exist

in any of the present forms of light. These results were published in the May issue of Anthony's Photographic Bulletin.

This department is carrying on a series of investigations and experiments in polychromatic color printing by photographic methods. Satisfactory and encouraging progress has been made, but the work is still in hand, and definite and final report will be made later.

HORTICULTURE AND FORESTRY.

The experiments of the last two years in connection with the Forcing House; and the general experiments in connection with work in this department, have been carried on with usual success. There has been more than usual co-operation on the part of horticulturists throughout the State; and the helpfulness of the department to the horticultural work of the State is constantly and more widely recognized.

PHYSICS.

In common with all physicists the head of this department has been much interested in the X ray phenomena and has done what he could with limited time and apparatus in studying and showing to others these striking experiments. This department is now able to take radiographs of practically all parts of the human frame, and has secured some very important and useful results.

From a physicist's standpoint the most important result was the determination of a maximum value for the duration of the active state of a Crooke's Tube after the spark passes. Stated differently, the question asked was, "How long does a Crooke's Tube continue to give off X rays after the electric spark which caused them has passed through the tube?" As a result of the experiments it can be said definitely that the time (directly measured) does not exceed the one five thousandth part of a second. These investigations will be continued during this year.

ZOOLOGY AND ENTOMOLOGY.

Investigations have been undertaken and are still in progress as follows: Catalogueing and studying the distribution and habits of the Odonota (dragonflies) of Ohio; the collection, food-habits, and distribution of Ohio fishes. The aim is to make as complete as possible these two collections as State collections. In connection with the latter work is found the chief use for the Lake Laboratory established this summer at Sandusky.

BY-LAWS AND RULES AND REGULATIONS

OF THE

BOARD OF TRUSTEES

OF THE

OHIO STATE UNIVERSITY.

(AS REVISED AND AMENDED SEPTEMBER 22, 1896).

ORGANIZATION AND MEETINGS.

SECTION 1. The officers of the Board shall consist of a President, Vice-president, Secretary and Treasurer, who shall be chosen by ballot at the June meeting of the Board, and at each annual June meeting thereafter, and shall hold their offices for the year ending June 30, of the following year and until their successors are elected and qualified.

SEC. 2. There shall be three meetings of the Board each year. One meeting shall be held on the Wednesday preceding the last Saturday in September of each year, at nine o'clock A. M.; another meeting shall be held on Tuesday of the week of the annual commencement. The third meeting shall be held on the first Wednesday of April and at that time the Finance Committee shall present to the Board the President's annual budget for the fiscal year beginning July 1, with their recommendations thereon.

ON THE RIGHTS AND DUTIES OF THE PRESIDENT.

SEC. 3. The President shall take his place precisely at the time provided for at the preceding meeting, and shall immediately call the Board to order.

SEC. 4. He shall have the right to call upon any member to perform the duties of the chair, but such substitution shall not extend beyond an adjournment.

SEC. 5. He shall preserve order and decorum in the proceedings of the Board, and shall observe and impartially administer that system of rules and regulations known as "parliamentary law," so far as the same may be applicable to the proceedings of the Board. In the absence of

the President, the Vice-president shall perform all the duties of the President.

SEC. 6. All special committees shall be appointed by the President, unless otherwise ordered by resolution of the Board.

SEC. 7. He shall sign the journal of all proceedings of the Board ; and all appointments made by the Board shall be signed by him and attested by the Secretary, who shall affix to every such appointment the corporate seal.

SEC. 8. The President is authorized to call special meetings of the Board ; and it is hereby made his duty to do so, upon a request of a majority of the Executive Committee, or whenever in his judgement the same should be convened, by causing all the members to be notified a reasonable time before any such meeting.

EXECUTIVE COMMITTEE.

SEC. 9. The Executive Committee shall consist of three members, who shall be chosen by ballot at the June meeting ; who, whenever the Board is not in session, shall have the management and control of the affairs of the University, under direction of the Board, which committee shall furnish to the Board, at every regular meeting thereof, or oftener, if required by the Board, a full report of its proceedings in the management and control of the University.

SEC. 10. The Executive Committee shall not create any liability not duly authorized by the Board, nor contract any debts beyond the appropriations made by the Board ; but the order of the Chairman of said committee shall be sufficient warrant for the Secretary to issue his draft on the Treasurer for the payment of such orders as may be approved by said committee, provided that in the absence of a quorum of such committee, bills may be audited and approved by one member of such committee, the President of the University and the Secretary.

FARM COMMITTEE.

SEC. 11. There shall be elected by ballot at the June meeting of the Board, a committee of three members to have the supervision and direction of the management of the University Farm, and of the experiments made thereon, subject to the direction of the Board.

SEC. 12. The Farm Committee is prohibited and restrained, in like manner as the Executive Committee, in regard to liabilities and debts, but is authorized to expend any and all appropriations made by the Board, for the use of the farm, and to conduct experiments on the same ; and an accurate account of such experiments, their cost and results, shall

be prepared and presented to the Board in time for publication in the annual report.

SEC. 12. The Secretary shall recognize the orders or requisitions made upon him by the Farm Committee, and shall issue his draft in payment of the same, on the proper appropriation.

COMMITTEE ON FINANCE.

SEC. 14. There shall be elected by ballot at the June meeting of the Board, a Committee on Finance, to consist of three members, who shall have charge of and report upon such matters as the Board may from time to time refer to them; and who shall recommend to them for adoption, such measures as in their judgement will best promote the pecuniary interests of the University.

SEC. 15. It shall be the duty of the Finance Committee at the September meeting, to examine all vouchers held by the Treasurer, and to make a comparison of his books with those of the Secretary, and report the results of such examination and comparison to the Board at the same meeting.

DUTIES OF THE SECRETARY.

SEC. 16. The Secretary shall be the custodian of the books, papers and seal, and he shall, in all proper cases, authenticate the acts of the Board by affixing said seal; he shall also conduct the Board's official correspondence.

SEC. 17. He shall attend all meetings of the Board, keep a correct journal, entering all motions, orders, resolutions and all other proceedings, he shall superintend all purchases authorized by the Board, the Executive Committee and the Farm Committee, and together with the President of the University supervise all improvements and repairs of buildings, and disburse the amounts appropriated by the Trustees for incidentals, ordinary repairs and printing and advertising; attend all meetings of the Executive and Farm Committees, and keep a record of the proceedings of the same, keep an accurate account of all sales of Virginia Military Lands, receive all moneys arising from such sales, and certify the same into the treasury and perform such other duties as the Board may from time to time prescribe. He shall also be the legal adviser of the Board of Trustees and its committees.

SEC. 18. It shall be the duty of the Secretary to prepare the annual report of this Board, and submit it for consideration at the September meeting. He shall keep an accurate account of all moneys received and paid over by him, and at the end of every quarter, shall furnish to the Executive Committee, if so directed, and at every September meeting to

the President of the Board, a detailed statement of all moneys so received and paid over. He shall give bond to the State of Ohio for the use of the University in the sum of \$5,000, conditioned for the faithful performance of his duties as Secretary and Bursar, and for the payment to the Treasurer of all moneys coming into his hands as such officer.

DUTIES OF THE TREASURER.

SEC. 19. The Treasurer shall keep an accurate account of all moneys received and disbursed by him, and at the end of every quarter he shall furnish the Executive Committee, if directed, and at each September meeting to the President of the Board, a detailed statement of all moneys received and expended by him, and he shall give bond, payable to the State of Ohio for the use of the Ohio State University, in the sum of fifty thousand dollars (\$50,000), for the safe keeping of said funds and the payment of the same in obedience to the rules and regulations of the Board, and for the faithful performance of his duties as Treasurer.

MODE OF ACCOUNTING.

SEC. 20. Before any money shall be paid into the treasury, or any requisitions be made upon the Auditor of State in favor of the Treasurer as provided in an act of the Legislature (passed March 22, 1870), the Secretary shall enter a correct account of the same in a book to be kept for the purpose, and certify all such money to the Treasurer; and the Treasurer shall not receive any money except upon such certificate or requisition; and all certificates and requisitions shall be numbered in the order in which they shall be issued, in duplicate, the receipts of one of which shall be acknowledged on its face by the Treasurer and preserved by the Secretary in book form and the other given to the Treasurer.

SEC. 21. No money shall be paid to the Treasurer unless in pursuance of appropriations made by the Board of Trustees, and as otherwise provided in section 23 of the by-laws.

SEC. 22. Every draft upon the Treasurer shall be drawn by the Secretary and numbered in consecutive order, and shall be made payable to the order of the person in whose favor it is drawn, and shall specify on its face the purpose for which it is drawn; and the stub of each draft shall show the name of the payee, for what purpose it is made, and shall agree in number, date and amount with such draft; and such stubs shall be preserved by the Secretary in book form.

SEC. 23. No draft shall be drawn by the Secretary, save for the payment of fixed salaries, expenses of the members of the Board, express charges, water rents, gas bills, stationery and postage, except by resolution

of the Board or upon the written order of the Executive Committee, the Chairman thereof, or the person duly authorized by the Board. Provided that the Secretary may draw orders on the Treasurer payable to himself, for bills of exchange in payment of foreign accounts after said accounts have been approved by the Executive Committee, stating thereon the name of the person for whose account the bill of exchange is desired.

SEC. 24. The Treasurer upon receiving any such draft, shall upon payment thereof, cancel the same as paid bank checks are cancelled, and enter in his books the number, date and amount of every such draft, and the name of the person to whom paid, and the said cancelled drafts shall be carefully preserved by him as vouchers, for which he shall be credited in his settlements.

ORDER OF BUSINESS.

SEC. 25. As soon as the Board is called to order, a quorum being present, the journal of the preceding day or last meeting, shall be read by the Secretary, and if correct, approved by the Board.

SEC. 26. When the journal has been read and approved as provided for in the foregoing section, the President shall state any matters of business to be acted upon, which shall be disposed of in such order as he may have it arranged, unless otherwise determined by a majority of the members present. Every motion or resolution that may be deemed necessary to be entered upon this journal shall be reduced to writing by the member offering the same, and the vote upon such motion or resolution shall be taken by yeas and nays, when such a vote is demanded by any member, and recorded with the motion or resolution.

THE FACULTY.

SEC. 27. The legislative authority to establish rules and regulations for the immediate government of the University and students, in all that relates to the order and discipline therein, the times of recitation, the general care of the buildings, etc., etc., is vested in the President and Professors constituting the general Faculty, who are authorized and required to establish such rules and regulations as may conduce to the good order and proper government of the University, subject to the approval of the Board of Trustees.

SEC. 28. They are authorized to affix such penalties for the violation of such rules and regulations as the nature and manner of the offense may demand, but their action may be reviewed and annulled by the Board after a hearing of the facts of the case.

SEC. 29. The execution of such rules and regulations relating to the order and discipline of the University is vested in the President who is

authoriz'd at the first meeting of the Faculty each year to appoint an advisory council to serve one year, consisting of three members of the Faculty, to whom he may refer for consideration and advice such questions involving discipline as he may wish; the said council to consider all matters so referred to them and to submit their conclusions and opinions to him.

SEC. 30. The Faculty shall hold meetings as often as may be deemed necessary to consult and advice about the mutual management of the University, and a full and correct record of the proceedings of such meetings shall be kept, which shall at all times be open to the inspection of any member of the Board.

SEC. 31. They are further empowered to make such rules and regulations and enforce their strict observance, relating to the study of Military Tactics, as they deem proper, provided that such rules and regulations do not conflict with an act of the Legislature, relating to the same.

SEC. 32. The President of the University is charged with the general oversight of all work done in the various departments and shall be the presiding officer of the general Faculty.

SEC. 33. The President may appoint at the opening of each University year one of the general Faculty as President pro tempore of the General Faculty, who shall act in the President's place when the latter is absent from the campus or the city, or during his illness, with full power as to discipline and matters of internal policy.

SEC. 34. Members of the Faculty shall not during term time leave the University to engage in any other work without the express consent of the President of the Faculty, or in cases of prolonged absence, of the Board of Trustees.

SEC. 35. Each professor shall furnish to the Secretary be'ore the close of the collegiate year, a full and complete inventory of all apparatus or equipment of any kind belonging to his department and annually thereafter a list of all additions or losses in such outfit as may have occurred; and the same shall be recorded and kept by the Secretary in book form for reference.

SEC. 36. The annual reports of heads of departments shall be for the University year ending with commencement, and shall be handed to the President on or before the 30th day of June. The report of the President shall be furnished to the Secretary on or before August 15.

SEC. 37. On the first Wednesday of April, the President shall present to the Finance Committee of the Board, the annual budget for the fiscal year beginning July 1, thereafter, which budget shall be based on a careful estimate to be furnished by the Secretary, of the available income

for that year, leaving an unappropriated balance of said income of not less than \$5000.

STUDENTS.

SEC. 38. Students of the University are required at all times to yield a prompt obedience to all rules adopted for their guidance by the Faculty.

SEC. 39. All term bills and fees required from students must be paid previous to and as a condition of registration.

SEC. 40. The Trustees request and expect all members of the general Faculty and all other instructors and students, who shall be on the campus at the hour set for general daily exercises—generally known as chapel exercises—to attend such exercises; unless detained by laboratory work which from its nature must be continuous. There shall be no class work or lecture work during the time set for these exercises; and no instructor or other officer shall for any reason detain students from attendance. The exercises shall be unsectarian in character, simple in form and devotional in spirit.

SEC. 41. Every male student of the University, (except as hereinafter specified), shall render two consecutive years of satisfactory cadet service as a condition of graduation; unless excused by the President of the University because of physical incapacity or for other good and sufficient reason. When the excuse is granted for physically incapacity, there shall be substituted for such cadet service, whenever possible and helpful, physical training under the director of the gymnasium. Law students and students over twenty-five years of age are exempt from such service.

In lieu of cadet service, every female student shall serve an equal time in the gymnasium, under proper instruction; for which service the Faculty shall make suitable sufficient provision in the time schedule of University work in the several colleges. The same general rules as to excuses shall govern this work as those which direct and control cadet service.

DEGREES.

SEC. 42. Degrees shall be conferred by the Board only upon the recommendation of the Faculty.

SEC. 43. All diplomas issued to those receiving degrees from the University, shall be signed by the President and Secretary of the Board of Trustees and by the President of the University.

MISCELLANEOUS.

SEC. 44. The Secretary and Treasurer of the Board shall each be entitled to receive such annual compensation for his services as may be determined by the Board.

SEC. 45. The Trustees shall each at every meeting of the Board, present to the Secretary a statement in writing of the sum expended in attending such meeting, who shall receive the same, and thereupon draw upon the Treasurer for the amount, which shall be paid by the Treasurer upon presentation of order or draft.

SEC. 46. All recommendations, communications and reports to the Board by any one, must be presented in writing, and must be addressed to the President of the Board of Trustees.

SEC. 47. All purchases by the University including supplies, and materials for the various departments, except the departments of Agriculture and Horticulture, shall be made by the Secretary of the Board of Trustees. Purchases for the departments to be made on requisition by their respective heads in such form as the Secretary may prescribe. When special appropriations are made to be otherwise expended, the person charged with their expenditure shall, whenever an account is presented, note on such account the balance unexpended of such appropriation.

SEC. 48. Salaries of members of the Faculty, (except the President) and assistants, shall be paid in tenths on the last Saturday of each month while the University is in session, and the rents of the residences occupied by the professors shall be payable at the same times, and in the same manner.

SEC. 49. The terms of the members of the Faculty who are heads of departments, elected or hereafter to be elected, shall be continuous, subject, however, at any time to removal by the Board of Trustees.

SEC. 50. These by-laws, or any of them may be suspended, amended or annulled at any regular or special meeting by a majority vote of the members in attendance.

Report of the Treasurer.

COLUMBUS, OHIO, June 30, 1896.

To the Honorable D. M. MASSIE, President Board of Trustees, Ohio State University:

SIR: I have the honor to herewith submit my report for the fiscal year ending June 30, 1896. This report is accompanied by properly approved vouchers for all disbursements.

Respectfully,

F. W. PRENTISS,
Treasurer.

STATEMENT I.

DETAILED STATEMENT OF RECEIPTS BY F. W. PRENTISS, TREASURER, DURING FISCAL YEAR ENDING JUNE 30, 1896.

Date.	From whom received.	For what purpose.	Amount.	Total.
1895.				
June 30	To balance.....			\$4,190 30
July 5	U. S. Treasury	Cong. app. for year ending June 30, 1896		21,000 00
8	B. F. Thomas	10th inst. rent, 1894-5.....	\$42 50	
	"	Gas to April 1, 1895	34 00	
	W. H. Scott.....	Postage stamps.....	4 00	80 50
Aug. 28	Com. Sinking Fund.....	Interest on endowment.....		5,000 00
Sept. 14	L. A. Magruder	Part fees of stud's law sch'l.	\$10 00	
	H. L. Wilgus	Fee of student Sclessinger law school.....	20 00	
	W. H. Scott	Stamps sold to students ...	5 68	
	E. A. Eggers	Ground r't due July 1, '95.	37 50	
	W. C. O'Kane.....	Acc't r't chap. house, '94-5	50 00	
	"	" " '94-5	60 00	183 18
	Alexis Cope, Bursar	Students' fees.....		6,580 50
	Auditor of State	Req. No. 55, app. dep. cer.		404 46
23	W. C. O'Kane.....	Acc't rent chapter house..	\$30 00	
	Geo. B. Kauffman	60 coup. cards sold to stud.	300 00	
	"	Chem. sup. sold to summer school students.....	37 52	367 52
July 3	Auditor of State	Req. No. 54, O. S. U. fund	\$3,053 24	
	L. D. Evans.....	On account rent.....	20 00	3,073 24
Oct	Auditor of State	Req. No. 56, O. S. U. fund	\$9,644 82	
	"	" 57, State appr'd dep't ceramics.....	264 98	9,909 80
8	Geo. B. Kauffman	80 coup. cards sold to stud.		400 00
19	L. D. Evans	On account rent.....	\$40 00	
	Geo. B. Kauffman	80 coup. cards sold to stud.	400 00	
				440 00
Nov. 2	Com. Sinking Fund.....	Int. on endowment		6,000 00
9	Auditor of State.....	Req. No. 58, O. S. U. fund	\$9,619 97	
	"	" 59, dep. of cer...	425 04	10,045 01
	B. F. Thomas	1st and 2d inst. rent, '95-6	\$85 00	
	"	Gas to July 29, 1895.....	4 80	
	G. W. Knight.....	6th inst. rent, 1894-5.	37 50	
	Mich. Mining Schools ..	One meter	12 00	
	Alexis Cope, Bursar	Term fees, fall term, 1895.	1,819 50	1,958 89
19	G. B. Kauffman	Sale of 40 coupon cards ...		100 00
Dec. 3	Auditor of State.....	Req. No. 60, O. S. U. fund	\$9,691 00	
	"	" 61, appr. dep't of ceramics.....	197 35	9,888 35

STATEMENT I—Continued.

Date.	From whom received.	For what purpose.	Amount.	Total.
1895.				
Dec. 4	Geo. B. Kauffman	Sale of 20 coupon cards		\$100 00
	G. W. Knight	Water rent, 6 mo. ending November 1, 1895		4 80
	B. F. Thomas	3rd inst. rent, 1895-6		42 50
30	Com. Sinking Fund	Interest on endowment		5,466 38
1896.				
Jan. 15	Auditor of State	Req. No. 62, O. S. U. fund	\$9,691 00	
	"	63, " ..	2,000 00	11,691 00
	W. K. Morehead	½ cost of lettering cases	\$2 50	
	S. F. Harriman	On account rent	25 00	
	E. A. Eggers	Ground rent due Jan. 1, '96	37 50	
	B. F. Thomas	4th inst. rent, 1895-6	42 50	107 50
18	G. B. Kauffman	40 coupon cards sold stud.		200 00
Feb. 10	Com. Sinking Fund	Interest on endowment		3,500 00
	B. F. Thomas	5th inst. rent, 1895-6	\$42 50	
	W. C. O'Kane	Acc't rent chapter house ..	50 90	
	Geo. B. Kauffman	Rebate on calorimeter	18 16	
	Alexis Cope, Bursar	Stud. fees, fall & winter t'm ..	5,584 11	5,695 67
24	Geo. B. Kauffman	40 coupon cards sold stud.	\$200 00	
	Mrs. S. F. Harriman	Rent, Jan. and Feb., 1896 ..	25 00	225 00
Mar. 4	Geo. B. Kauffman	20 coupon cards sold stud.		100 00
	Auditor of State	Req. No. 64, O. S. U. fund	\$9,805 50	
	"	" 65, dep't of cer... ..	1,255 28	11,060 78
April 1	Com. Sinking Fund	Interest on endowment		4,500 00
	B. F. Thomas	6th inst. rent, 1895-6	\$42 50	
	W. C. O'Kane	Acc't rent chapter house ..	75 00	117 50
6	S. F. Harriman	Rent for March, 1896	\$12 50	212 50
	Geo. B. Kauffman	40 coupon cards sold stud.	200 00	10,164 16
9	Auditor of State	O. S. U. fund		
29	B. F. Thomas	8th inst. rent, 1895-6	\$42 50	
	Geo. B. Kauffman	20 coupon cards sold stud.	100 00	
	G. W. Knight	7th inst. rent, 1895-6	37 50	
	B. F. Thomas	7th " 1895-6	42 50	
	Alexis Cope Bursar	Students' fees, spr. term, '96 ..	5,136 28	5,358 78
May 9	Com. Sinking Fund	Interest on endowment		3,500 00
22	Auditor of State	Req. No. 67, O. S. U. fund	\$13,000 00	
	"	" 68, " ..	10,120 50	23,120 50
June 4	S. F. Harriman	Rent for April, 1896	\$12 50	
	E. A. Eggers	" due June 1, 1896	37 50	
	G. B. Kauffman	40 coupon cards	100 00	
	G. W. Knight	8th inst. rent, 1894-5	37 50	
	"	Fee spec. exam. law stud't ..	3 00	190 50

STATEMENT I - Concluded.

Date.	From whom received.	For what purpose.	Amount.	Total.
1896				
June 27	Seasongood & Mayer.....	Part paym't on certificates		\$3,000 00
	G. W. Knight	Gas from April 1, 1894 to		
	"	July 29, 1895.....	\$78 00	
	B. F. Thomas	Spec. exam. law student...	3 00	
	Alexis Cope Bursar.....	9th & 10th inst. rent, '95-6	85 00	
		Term laboratory fees.....	238 30	
29	" "	" "	\$427 81	404 30
	" "	Diploma fees, law grad ...	95 00	
	Auditor of State.....	Req. No. 69, O. S. U. fund	2,494 62	
				3,017 43
	Com. Sinking Fund..	Interest on endowment.....		4,967 89
	G. W. Knight.....	9th & 10th inst. rent, '94-5		
		& 1st & 2d " '95-6		150 00
	Total receipts .....	.....		\$176,518 85

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1895.				
July 5	C. O. Paper Co.....	Herbarium paper.....	53	\$23 50
	Gustav E. Stechert	Books and charts, dept. of Latin.	54	6 74
	Ben. D. Potts	Hydrant and fittings.....	55	4 45
	John Immel & Son	1 wagon	56	175 00
	Stitt, Price & Co.....	30 measures lime.....	57	3 00
	Westbote Printing Co.....	Examination quest's, law sch'l..	58	13 50
	Columbus Gas Co.....	50 bu. coke, school of mines	59	4 00
	Hann & Adair	Blank book envelopes	60	6 75
	Potts & McCoy.....	Fittings, school of mines.....	61	1 49
	Anna Neill Scott.....	60 hrs. catalogueing books @ 25c	62	15 00
	Hann & Adair	Blanks and circulars, etc.....	63	49 95
	Leader Printing Co.....	Proposals for observatory	64	6 00
	A. N. Kellogg News'r Co.	50 sets plates.....	65	70 00
	The Lantern.....	Advertising.....	66	42 65
	Plain Dealer Pub. Co.....	Proposals for observatory	67	7 15
	Paul Jones.....	Balance due for law lectures....	68	67 93
	Geo. K. Nash	" " " " " " " " " " " "	69	110 33
8	I. N. Abernathy.....	" " " " " " " " " " " "	70	65 21
	E. Mead Wilcox.....	Add w'k as ass't in bot'y June, '95	71	20 00
9	F. M. Senter	1000 2-c envelopes	72	21 80
10	Nellie Herrick	132 hrs. work in library @ 12½c.	73	16 50
	Harriett Townshend.....	256 " " " " " " " " " " " "	74	32 00
	G. S. Marshall	110 " " " " " " " " " " " "	75	13 75
13	D. M. Massie.....	Exp. meetings, July 1 and 2, '95.	76	6 85
	H. L. Wilgus	Exp. advertising law school.....	77	65 00
17	O. W. Aldrich	Bal. due for lect's, law sch., '94-5	78	283 36
19	Columbus Post-office.....	300 2-c, 100 3-c postage stamps..	79	9 00
Aug. 5	Columbus Post-office.....	500 2-c stamps.....	80	10 00
6	Warren K. Morehead.....	Sal. for July and Aug., 1895.....	81	100 00
July 26	Columbus Post-office.....	300 1-c, 300 2-c postage stamps..	82	9 00
27	F. B. Brewer.....	Salary for July, 1895	83	40 00
	W. C. McCracken.....	" " " " " " " " " " " "	84	100 00
	Chas. Law	" " " " " " " " " " " "	85	50 00
	James Kelley	" " " " " " " " " " " "	86	41 67
	Wm. Whitestone	" " " " " " " " " " " "	87	45 00
	F. W. Prentiss	" " " " " " " " " " " "	88	33 33
	Alexis Cope.....	" " " " " " " " " " " "	89	187 50
	Washington Townshend.	" " " " " " " " " " " "	90	40 00
	Rutherford H. Platt.....	Lectures, law school, year ending June 30, 1895.....	91	155 97
	H. N. Riggle	Salary for July, 1895	92	40 00
	Thos. Bonde	" " " " " " " " " " " "	93	45 00
	H. L. Wilgus	Advertising law school.....	94	60 00
Aug. 2	Columbus Post-office.....	500 2-c, 100 3-c, 100 4-c stamps..	95	17 00
6	T. J. Godfrey	Expenses at meetings, July 16 and August 6, 1895.....	96	18 25
	Florence Dean Cope	Services as clerk, 10 d., @ \$1 50..	97	15 00
7	J. H. Brown	293 hours work on campus, July and August, 1895.....	98	43 95
10	Geo. Flickinger	244 hrs. w'k on campus, July, '95.	99	30 50
7	J. C. Britton	227 " " " " " " " " " " " "	100	28 38
	W. G. Worcester	192 " " " " " " " " " " " "	101	24 00
	W. Worcester	147 " " " " " " " " " " " "	102	18 38
	Wm. Gilmore	43 " " " " " " " " " " " "	103	5 38
	F. H. Goodell.....	65 " " " " " " " " " " " "	104	8 13
	F. O. Kindig.....	169 " " " " " " " " " " " "	105	21 13
	D. A. Givens.....	259 " " " " " " " " " " " "	106	32 38

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1895. Aug. 7	Thomas Whiteman	626 hrs. work on campus, man & team & for screen'gs & haul'g 500 yards gravel less cr. \$66 85	107	\$320 95
	John Thompson	78 hours work on campus, man and team, July 1895	108	23 40
	Cornelius Callaghan	110 hours work on campus, man and team, July 1895	109	33 00
	G. W. Clarke & Co.	200 pieces 2x2-18 inch oak.....	110	3 00
	Z. N. Barber	Repairing tools	111	4 15
	C. W. Waid	76 hrs. work on campus July '95	112	9 50
	J. T. Dallas	271½ " "	113	33 91
	W. H. Scott	Barn yard fence	114	10 00
	J. N. Bradford	Services as architect	115	100 00
	Thos. Boude	Extra work at gas wks. June '95	116	5 00
	Krauss, Butler & Benham Co.	Portier, pole, pins for Pres. office	117	3 00
	The Goubert Mfg. Co.	One 5-inch Stratton separator...	118	50 00
	Cherrington Ptg & Eng. Co	194 key checks with rings.....	119	4 36
	Maud Jeffrey	80 hours work in library	120	10 00
	Geo. F. Wheeler	Two extra large tubs for ice water at commercement	121	2 70
	E. Kelton & Co.	Lumber for platforms for com.	122	11 56
	Geo. F. Trowbridge..	Bldg. platform, etc., for com....	123	14 44
	Chas. Woodruff	Erect'g & remov'g tent etc., f. com.	124	25 41
	Adams Express Co.	Charges for freight	125	3 55
	R. L. Polk & Co.	Directory for Pres. office	126	5 00
	D. H. Baldwin	Repairing piano	127	20 00
	W. U. Telegraph Co.	Messages	128	3 07
	The Ruggles-Gale Co.	Cabinet file, box rubber bands..	129	3 00
12	Engelke & Bigelow	Freight and cartage	130	35 17
7	Engelke & Bigelow	Cartage	131	10 00
	McClelland & Co.	Fluid and blotting paper	132	6 03
	Smith & Conklin	Base & screen for office & chair	133	7 50
	Alexis Cope	20 copies Col. Dispatch	134	70
	The Col. Transfer Co.	Carriage hire	135	9 50
	McAllister, Mohler Co....	Office table for Pres't. Canfield..	136	12 00
	A. H. Smythe	2 typewriters and stationery....	137	210 63
	Harrington & Co.	Clock	138	85
	Oscar S. Lear	One Fountain sponge cup..	139	85
	Logan McCormick	Fifteen frames	140	3 75
	Col. Mds Co.	One-half dozen bushel baskets..	141	3 50
	The Tracy-Wells Co.	Brooms, brushes, etc	142	32 63
	Z. L. White & Co.	50 yds. cheese cloth, 50 vds. crash	143	5 00
	Col. Cabinet Co.	Packing, shipp'g, 1 table, 1 chair	144	2 00
	Chas. Huddleson	99 hrs. work as clerk, ex. office	145	12 37
	T. Ewing Miller	Officer ent'f. Nov. 15 '94 to July 95	146	78 14
	J. F. Cunningham	Janitor work & mail'g circulars..	147	28 57
	D. C. Thomas	33 hrs. work clean'g & paint'g	148	23 35
	Neski & Huffman	Plumbing repairs & changes.....	149	175 58
	J. J. Gheen	Plastering and repairs	150	233 30
	E. Kelton & Co.	Lumber	151	74 28
	Payne McDonald H. Co.	One keg nails	152	3 75
	Blackwood Green & Co.	Plate, tin, solder & labor	153	4 45
	The Hanna Paint Mfg. Co	Paints and oils	154	6 31
	Chas. Bryson	Repairing and varnishing chairs and stand	155	9 50

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1895.				
Aug. 7	Lewis Fink	Papering	156	\$28 13
	The Tallmadge Hdw. Co.	Glass and hardware	157	46 75
	J. Holt Gates	Brushes for motor	158	1 44
	Ben D. Potts	Fittings separator in power h'se	159	8 24
	A. W. Madden	Papering and kalsomining	160	45 50
	Cap. City Mach. Wks.....	Whitewash	161	5 00
	J. Rath	Repairing furnace	162	35 00
	H. E. Brown & Sons	Plumbing	163	8 00
	Kelton & Converse	Lumber	164	16 50
	Andrew Earl	"	165	4 88
	Col. Arch. Iron Works...	Iron roof and repairing	166	124 00
	John W. Reams	49 hours carpenter work	167	13 61
	Geo. T. Trowbridge.....	73½ "	168	20 42
	Chas. H. Woodruff.....	194 hours carpenter work \$2 paid plasterer.....	169	53 89
	C. B. Hine.....	Sal. as fireman hort. dep. July 95	170	45 00
	Wm. Standley	Salary for labor as fireman	171	39 00
	John Murphy & Co	1 barrel cement	172	2 80
	Ben D. Potts	Fittings	173	90
	Payne McDolland H. Co.	"	174	75
	Blackwood Green & Co...	Galvanized iron work	175	4 66
	Col. Merchandise Co.....	One-fourth dozen tubs	176	1 00
	Burley & Winter	100- one gallon lids	177	5 50
	Col. Supply Co	1½x12 gauge glass	178	15
	The Tallmadge Hardw. Co.	3 pairs 8x8 shelf brackets	179	60
	Col. Gas Co	418 bushel coke	180	27 18
	Edwin Kelton & Co	Lumber	181	4 04
	Standard Oil Co	Oil	182	18 94
	Fish Press Brick Co	7,000 common brick	183	35 00
	Chas. H. Woodruff	14 hours carpenter work	184	3 92
	Geo. T. Trowbridge.....	13½ "	185	2 75
	John W. Reams	14 "	186	3 89
	D. Appleton & Co	Shalers U. S	187	10 00
19	James Penn	Freight and express paid	188	1 75
7	Olive B. Jones	Cash paid for sundries	189	2 43
	U. S. Express Co	Freight	190	35
	John L. Trauger	Binding books	191	56 09
	Engelke & Bigelow	Freight and cartage	192	1 21
	A. H. Smythe	Books	193	15 62
	Gustave E. Stechert	Books per invoices	194	470 63
9	F. W. Prentiss, Treas.....	Bill of exchange on Berlin, O. Harrassowitz	195	27 30
	Kauffman, Lattimer & Co	Balances, weights, etc.....	196	51 00
7	Palmer Slide Co	Slides and covers	197	2 40
	Cambridge Bot. Sap. Co.	Bibliography 1895.....	198	5 00
	E. E. Bogue	39 hrs. work on herbarium	199	6 23
	Freda Detmers	80 "	200	12 00
	Blackwood Green & Co...	One galvanized iron box.....	201	2 00
	L. Lesquereux	One clock and repairs	202	4 00
	Payne, McDonald & Co ..	Glue, paint, twine, etc	203	5 82
	McClelland & Co.....	Blotting paper, mucilage, etc...	204	1 65
	E. M. Wilcox	Payment of bills for apparatus..	205	2 16
	W. A. Kellerman.....	Sundries	206	22 52
	Clara E. Cammings..	Decades 16-18 N. A. Lichens...	207	2 35
8	E. A. Kinsey	Tools	208	12 33
	E. A. Cole & Co	Test coal	209	41 81

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1895. Aug. 8	Gustav E. Stechert	Books	210	\$11 86
	Wards Nat. Science Est..	One skull.....	211	65 00
	A. H. Smythe	One record.....	212	1 00
	Hann & Adair	Blanks and circulars	213	212 47
	Chas. E. Gregory & Co....	Instruments.....	214	11 00
	W. U. Telegraph Co.....	Synchronized time service	215	8 75
	G. W. Clarke & Co.....	Hung. grass seed	216	7 50
	Col. Buggy Co	Repairing & repainting wagon	217	19 25
	Hardesty Bros	Grain	218	52 08
	A. W. Livingston's Sons..	Hung. grass seed	219	4 83
	Edward Orton.....	Bills paid.....	220	11 80
	Edwin Kelton & Co	Lumber	221	5 77
	Warren K. Morehead	Work in excavating, and pur- chasing relics	222	75 10
	Geo. T. Trowbridge.....	6½ hours carpenter work	223	1 84
	John W. Reams.....	6 " "	224	1 67
	Chas. H. Woodruff.....	23 " "	225	7 63
	Wards Nat. Science Est..	Mounting mastoden	226	653 03
	Ohio Educ. Monthly.....	One page & one-inch advertising	227	11 50
	The Terry Engraving Co	Cuts for pharmacy circular.....	228	19 00
	Gen. Ohio Paper Co.....	Envelopes and twine	229	9 05
	Hann & Adair	Stationery and blanks	230	8 25
	The Ohio Farmer.....	Advertising summer school.....	231	4 20
	Lord & Thomas	Advertising	232	103 42
	Columbus Dispatch.....	"	233	1 30
	Col. Daily Press-Post.....	"	234	2 00
	Public School Journal Co	" May and June	235	1 00
	The Central Magazine ...	One page advertising July	236	7 50
	Paul C. Carty Ptg. Co.....	500 envelopes	237	1 75
	The O. State Journal Co	Advertising summer school.....	238	2 75
	Spahr & Glenn.....	Prize drill programs and orders, diplomas	239	43 00
	Nitschke Bros.....	Catalogues, blanks, etc.....	240	178 20
10	Columbus Post-office.....	200 5-c, 200 2-c, 10 spec. del. st'ps	241	21 00
13	H. L. Wilgus	Expenses for adv. law school ...	242	50 00
	Columbus Post-office.....	500 1-c postage stamps	243	5 00
	Andrew Earl	Lumber	244	61 97
15	Alexis Cope.....	Salary to date.....	245	93 75
20	Columbus Post-office.....	650 2-c stamps	246	13 00
21	"	200 1-c "	247	2 00
24	Edith D. Cockins.....	Serv. as record clerk Aug. 5 to 22	248	19 00
26	Alexis Cope.....	Salary to August 31.....	249	93 75
31	Warren K. Moorehead...	" for " 1895	250	50 00
	W. C. McCracken.....	Salary as engineer, August 1895	251	100 00
	Chas Low	" fireman,	252	50 00
	Thos. Bonde	" watchman,	253	45 00
	Jas. Kelly	" lawn-keeper,	254	41 67
	Wm. Whitestone	" janitor,	255	45 00
	Fred B. Brewer.....	" "	256	40 00
	Wash. Townsend	" "	257	40 00
28	Columbus Post-office.....	500 2-c, 500 1-c stamps	258	15 00
30	Borger Bros.....	Iron tank.....	259	34 00
	Jean Blackford.....	Serv. as executive clerk, ½ mo.	260	20 00
	D. Carlos Huddleson.....	Serv. as guide, 219 hrs. @ 12½	261	27 37
	T. E. French.....	" 29	262	3 62
	Ernest Scott.....	" 8½	263	1 03

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1895.				
Aug. 31	E. M. Wilcox	Salary for August, 1895.....	264	\$20 00
Sept. 4	Benjamin Le Bay	Serv. as watchman, janitor	265	24 00
Aug. 31	H. N. Riggle	Salary for August, 1895	266	40 00
	John H. Brown	" as janitor, August, 1895	267	40 00
Sept. 2	C. B. Hine	Sal. as foreman garden, Aug '95	268	45 00
	John T. Mack	Exp. attending meeting this day	269	10 35
	W. I. Chamberlain	" " " "	270	11 65
3	Florence Dean Cope	Salary as clerk	271	34 50
	T. J. Godfrey	Expenses meeting, Sept. 2 & 3	272	9 50
4	William Haynes	100 h. labor man & team, Aug '95	273	30 00
	Columbus post-office	Stamped envelopes	274	43 60
	Thos. Whiteman	517 h. labor man & team, Aug. '95	275	155 10
	Cornelius Callaghan	185 " "	276	55 50
	John Brown	140 h. lab. on campus by Eddie B	277	5 60
	Grant Clayton	80 hours man and team, 39 hours man labor, August.....	278	28 88
	Elmer George	13½ h. labor man & team, Aug.	279	4 05
	Louis Heims	15 " " " "	280	4 50
	T. E. Ebright	90 " " " "	281	27 00
	J. M. Leaman	20 " " " "	282	6 00
	J. L. Nichols	28 h. labor man & team, Aug. '95	283	3 50
	Dwight Rogers	20 " " " "	284	2 50
	J. D. Prickett	35 " " " "	285	4 38
	William Marsh	60 " " " "	286	7 50
	T. R. Decker	13 " " " "	287	1 63
	E. F. Marsh	19 " " " "	288	2 48
	J. L. Oldham	20 " " " "	289	2 50
	Z. N. Barber	Blacksmithing, August 1895	290	9 35
	William Sands	70 hours labor, August 1895.....	291	8 75
	W. G. Minkler	15 hours labor, August, 1895.....	292	1 88
	O. V. Brumley	100 " " " "	293	12 50
	E. F. Coddington	120 " " " "	294	15 00
	Herman Haerlein	Services as landscape gardener..	295	166 00
	W. G. Worcester	269 hours labor, August, 1895...	296	33 63
	S. C. Britton	142 " " " "	297	21 30
	D. A. Givens	198 " " " "	298	29 70
	G. A. Flickinger	266 " " " "	299	39 90
	O. T. Herbert	80 " " " "	300	10 00
	Houston Jones	80 " " " "	301	10 00
	Samuel McKnight	168 " " " "	302	21 00
	Edward Orton, jr.	by Sam Orton, August, 1895.....	303	8 00
	C. W. Waid	150 hours labor, August, 1895...	304	18 76
	Chas. Mooney	115 " " " "	305	14 38
	G. S. Pell	20 " " " "	306	2 50
	Wm Britton	8 " " " "	307	80
	C. W. Johnson	80 " " " "	308	10 00
	D. C. Thomas	10 " " " "	309	1 25
	J. T. Dallas	202 " " " "	310	25 25
	Homer Patch	56 " " " "	311	7 00
	Wm. Gilmore	38 " " " "	312	4 75
	W. G. Minkler	37 " " " "	313	4 62
	Ben D. Potts	Tin, locks, pipes, etc.....	314	312 97
	Kelton & Brown	Lumber	315	22 70
	W. A. Olmstead	Slate black board.....	316	82 50

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1895. Sept. 4	Col. Cabinet Co.....	Office fixtures, case pigeon holes and shelves	317	\$104 00
	Lewis Fink.....	Papering, painting, etc.....	318	82 75
	Andrew Earl.....	Lumber	319	86 15
	J. Roth.....	Repairing furnaces, etc.....	320	61 00
	Edward Kelton & Co	Lumber	321	109 23
	Blackwood, Green & Co..	Galvanized iron work.....	322	18 74
	Wm. Tuller.....	Repairing and plastering.....	323	45 00
	D. C. Thomas.....	Painting, cleaning, etc.....	324	12 36
	C. H. Woodruff.....	Carpenter work.....	325	68 77
	Thomas D. Rea.....	" "	326	27 78
	Ira Brown Allen.....	" "	327	30 69
	Col. Post office	100 5-c stamps	328	5 00
	Alexis Cope.....	Expenses self and Pres. Canfield attending meeting, Sandusky.	329	6 15
	William Gill.....	Carpenter work.....	330	30 27
	Lucien McCullom.....	" "	331	7 50
	G. T. Trowbridge.....	" "	332	34 72
	Tallmadge Hdw. Co.....	Hardware, etc.....	333	19 36
	Cap. City Machine Wks.	Hanging separator & other work.	334	2 67
	Murphy Iron Works.....	Brick for repairing furnace.....	335	70 50
	Cleveland Supply Co.....	Com'l package.....	336	4 22
	Reliance Gauge Co.....	2 No. 5 S. U. Cols. Trimmed....	337	40 00
	Babcock & Wilcox Co.....	4 tubes	338	19 20
	C. T. Hirtler.....	Brick wk, rep's boilers & gas wks	339	69 30
	Neski & Huffman.....	Water closet and syphon.....	340	28 50
	F. E. Reeves.....	Repairing plastering.....	341	9 60
	E. O. Kissinger.....	Sand and lime.....	342	3 00
	Stand. Und'rg'd Cable Co	Cable and reel (2300 ft. cable)...	343	186 25
	American Express Co.....	Freight	344	6 96
	" "	"	345	2 90
	Kilb'e & Jacobs M'fg Co.	Wheel-scrapers, etc.....	346	137 60
	Hann & Adair.....	Printing P. O. cards	347	5 66
	Franklin Printing Co.....	" applications for adm..	348	3 00
	E. A. Cole & Co.....	Fuel	349	50 56
	Franklin Fuel Co.....	"	350	26 70
	Col. Dispatch.....	Advertising	351	32 75
	American Express Co.....	Freight	352	1 45
	Col. Exp., Ohio Sonnt'g't	10,000 dodgers.....	353	15 00
	A. H. Smythe.....	134 Mimeo letters	354	1 45
	Nitschke Bros.....	Cards, circulars, etc.....	355	37 45
	Windsor & Kenfield.....	½ page advertisement.....	356	16 67
	A. N. Kellogg Newsp. Co.	50 sets plates.....	357	70 00
	Hann & Adair.....	Copies Pres. rep't, 1 bx typew. p'r	358	9 35
	J. Upton Gribben.....	"Ad" in Y. P. C. U. Souvenir ...	359	5 00
	C. B. Caldwell.....	Advertising	360	2 00
	Col. Gas Co.....	101 bu. coke.....	361	6 56
	Gustav E. Stechert.....	Manuel practical pottery.....	362	11 81
	Tallmadge Hdw. Co.	Wire sash cord and expressage	363	2 93
	Mrs. D. A. Crawler.....	Stenographer and typewriting..	364	8 00
	American Express Co.....	Freight.....	365	57 88
	J. N. Bradford.....	Services as architect.....	366	50 00
	Har's'n, Olds & Hend'rs'n	50 copies record & 50 ex. copies..	367	35 40
	Brown Livery Co.....	Hack hire.....	368	2 50
	Wm. Standley.....	Helping about boiler house.....	369	36 00
	Oscar S. Lear.....	Letter baskets and sponge cups..	370	2 85

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1895.				
Sept. 4	Nitschke Bros.....	Paper.....	371	\$1 70
	W. S. Wiggins.....	Rubber type, etc.....	372	3 45
	Col. M'd'se Co.....	Large sponges.....	373	3 94
	The Ruggle-Gale Co.....	Letter book, 12 p. blotting paper.	374	2 15
	The Tracy-Wells Co.....	1 gross erasers.....	375	6 00
	Thos. Ross.....	1 gallon soft soap.....	376	40
	Col. Rubber & Belt'g Co.....	Reversible rubber & stair treads	377	38 00
	Monyp'ny-Hamm'd Co.....	Soap and lye.....	378	7 75
	Tallmadge Hdw. Co.....	1 Only Ohio push cart.....	379	8 00
	C. G. Anderson & Son.....	Venetian blinds.....	380	20 00
	A. H. Smythe.....	Soap and lye.....	381	43 10
	J. C. Porterfield.....	Lime.....	382	35
	Adams Express Co.....	Freight.....	383	8 35
	Ohio Furniture Co.....	6 student tables.....	384	13 50
	U. S. Express Co.....	Freight.....	385	85
	J. W. Reams.....	Carpenter work.....	386	62 22
7	H. L. Wilgus.....	Law school advertising.....	387	75 00
14	F. W. Prentiss.....	Salary as Treas., August, 1895...	388	33 33
	Wells-Fargo & Co.....	Freight on packages.....	389	6 75
18	Houston Jones.....	½ mo. as janitor Elect. Bldg.....	390	20 00
20	Col. Post office.....	500 2-c, 200 5c & 200 1-c stamps	391	22 00
21	Herbert Scott.....	Services as Pres. clerk, 1 mo, 3d.	392	77 00
	D. M. Massie.....	Expenses at meet'g, Sept. 2, 1895	393	15 65
	Gould & Eberhardt.....	Shaper machine.....	394	250 00
23	Geo. W. Knight.....	Bal. due for law lectures, 1894..	395	33 91
28	Jas H. Carfield.....	1½ salary, September, inst.....	396	600 00
	Thos. F. Hunt.....	" ".....	397	250 00
	Edw. Orton.....	" ".....	398	225 00
	W. H. Scott.....	" ".....	399	225 00
	Sam'l C. Derby.....	" ".....	400	225 00
	W. B. L. zenby.....	" ".....	401	225 00
	J. R. Smith.....	" ".....	402	225 00
	H. A. Weber.....	" ".....	403	225 00
	Benj F. Thomas.....	" ".....	404	225 00
	Geo. W. Knight.....	" ".....	405	225 00
	R. D. Bohannon.....	" ".....	406	225 00
	D. S. Kellicott.....	" ".....	407	225 00
	C. Newton Brown.....	" ".....	408	225 00
	E. A. Eggers.....	" ".....	409	225 00
	A. M. Bleile.....	" ".....	410	225 00
	W. A. Kellerman.....	" ".....	411	225 00
	A. L. Williston.....	" ".....	412	220 00
	B. L. Bowen.....	" ".....	413	210 00
	A. C. Barrows.....	" ".....	414	210 00
	J. V. Denney.....	" ".....	415	210 00
	N. W. Lord.....	" ".....	416	200 00
	W. F. Hunter.....	" ".....	417	200 00
	Geo. B. Kauffman.....	" ".....	418	200 00
	Edw. Orton, jr.....	" ".....	419	180 00
	J. N. Bradford.....	" ".....	420	180 00
	F. A. Ray.....	" ".....	421	180 00
	Wm. McPherson.....	" ".....	422	180 00
	G. W. McCoard.....	" ".....	423	160 00
	S. A. Norton.....	" ".....	424	120 00
	F. C. Caldwell.....	" ".....	425	120 00
	Henry C. Lord.....	" ".....	426	120 00

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1895. Sept. 28	E. A. Kemmler.....	1 st salary, September inst.....	427	\$120 00
	R. I. Fulton.....	" " ".....	428	120 00
	E. A. Hitchcock.....	" " ".....	429	120 00
	W. D. Gibbs ..	" " ".....	430	100 00
	C. W. Mesloh ..	" " ".....	431	100 00
	David S. White ..	" " ".....	432	100 00
	Thos. E. French ..	" " ".....	433	90 00
	F. C. Clarke.....	" " ".....	434	90 00
	Olive B. Jones ..	" " ".....	435	80 00
	C. W. Weick ..	" " ".....	436	80 00
	W. A. Knight.....	" " ".....	437	80 00
	F. J. Combs.....	" " ".....	438	80 00
	N. H. Brown.....	" " ".....	439	80 00
	J. R. Taylor ..	" " ".....	440	75 00
	J. S. Hine ..	" " ".....	441	75 00
	L. M. Bloomfield ..	" " ".....	442	70 00
	C. B. Morrey.....	" " ".....	443	70 00
	J. A. Bownocker.....	" " ".....	444	70 00
	A. P. Winston ..	" " ".....	445	70 00
	C. L. Arnold ..	" " ".....	446	70 00
	Clau A. Dye ..	" " ".....	447	70 00
	Ernest Bradford...	" " ".....	448	60 00
	H. M. Ball.....	" " ".....	449	60 00
	T. K. Lewis.....	" " ".....	450	50 00
	C. A. Bruce ..	" " ".....	451	50 00
	F. L. Landacre.....	" " ".....	452	50 00
	Karl D. Swartzel ..	" " ".....	453	40 00
	W. L. Evans ..	" " ".....	454	30 00
	Ry M. Hughes ..	" " ".....	455	30 00
	Harriet Townsend.....	" " ".....	456	30 00
	Frank Haas ..	" " ".....	457	30 00
	E. M. Wilcox ..	" " ".....	458	25 00
	G. H. Calkins ..	" " ".....	459	25 00
	F. E. Kester.....	" " ".....	460	25 00
	Warren K. Morehead....	Salary for September, 1895.....	461	50 00
	Alexis Cope.....	" " ".....	462	187 50
	F. W. Prentiss ..	" " ".....	463	33 33
	W. C. McCracken..	" " ".....	464	100 00
	Chas. Low ..	" " ".....	465	50 00
	Thos. Bonde ..	" " ".....	466	45 00
	James Kelly ..	" " ".....	467	41 67
	Wm. Whitestine.....	" " ".....	468	45 00
	Fred B. Brewer.....	" " ".....	469	40 00
	Wash. Townsend ..	" " ".....	470	40 00
	John H. Brown ..	" " ".....	471	40 00
25	J. H. McGregor ..	Supplies, dep't Zoo. and Ent.....	472	29 50
28	John Conrad.....	Serv. as jan., Aug. 22 to Sept. 30	473	50 66
	Fred W. North.....	" sup't green house, Bot. dep't, 20 days	474	26 66
	Jean Blackford.....	Sal. as Ex. clerk, Sept., 1895.....	475	40 00
	Edith Cockins ..	" Rec. clerk, ".....	476	30 00
	John F. Martin ..	14 hrs. inst. in Math. @ 16c.....	477	16 33
	F. B. Pearson ..	9 " Latin @ \$1.50.....	478	13 50
	C. B. Hine ..	Serv. as foreman gard., Sept., '95	479	45 00
	Carl Huddleson ..	154½ hrs. guide @ 12½c.....	480	19 31
Oct. 3	Z. N. Barber ..	Blacksmithing	481	9 25

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1895. Oct. 3	Edwin Kelton & Co.....	96 feet 6 - 4x4, 12 oak, 504 feet 21 - 2x12 - 12 oak.....	482	\$12 00
	H. A. Patterson	270 hours labor on campus.....	483	81 00
	Cornelius Callaghan	240 " " " ".....	484	72 00
	Edw. Courtright.....	150 " " W. F. Haynes.....	485	45 00
	W. F. Haynes.....	239 " " on campus.....	486	61 20
	D. E. Putnam.....	Labor on campus by Haynes ...	487	61 50
	Moore & Dunn	" " " ".....	488	61 50
	A. W. Livingston's Sons.....	Grass seed.....	489	24 25
	Col. Sewer Pipe Co	Sewer pipe.....	490	11 42
	R. S. West.....	33 hours labor on campus.....	491	4 13
	A. M. Beem.....	15 " " " ".....	492	1 88
	R. F. Marsh.....	60 " " " ".....	493	6 00
	Ed. M. McGovern	59 " " " ".....	494	7 38
	Whitefield Duval.....	60 " " " ".....	495	7 50
	A. Seifer.....	50 " " " ".....	496	6 25
	Archie Ward.....	115 " " " ".....	497	14 38
	J. O. Callaghan	113 " " " ".....	498	14 06
	L. M. Johnston.....	25 " " " ".....	499	3 13
	W. D. Griffith.....	110 " " " ".....	500	13 75
	Fred Madden	24 " " " ".....	501	3 00
	H. M. Tibbett.....	100 " " " ".....	502	12 50
	Chas. Mooney	60 " " " ".....	503	7 50
	F. M. Randolph.....	25 " " " ".....	504	3 13
	A. T. Parker.....	33 " " " ".....	505	4 13
	P. E. Bryant.....	40 " " " ".....	506	5 00
	V. H. Davis.....	55 " " " ".....	507	6 88
	Haines Huff.....	40 " " " ".....	508	5 00
	E. N. Beardsley	130 " " " ".....	509	16 25
	John Brown	260 " " " ".....	510	10 40
	A. J. Chantler.....	130 " " " ".....	511	16 25
	Samuel McKnight.....	180 " " " ".....	512	22 50
	H. G. Carr.....	100 " " " ".....	513	12 50
	Wm. Gilmore.....	65 " " " ".....	514	8 13
	Geo. A. Flickinger	74 " " " ".....	515	9 25
	Wm. Sands	40 " " " ".....	516	5 00
	W. A. Huff.....	69 " " " ".....	517	8 63
	E. A. Marsh.....	159 " " " ".....	518	19 87
	Dwight Rogers.....	98 " " " ".....	519	12 25
	O. V. Brumley	35 " " " ".....	520	4 38
	E. M. Ward.....	50 " " " ".....	521	6 25
	J. D. Prickett.....	56 " " " ".....	522	7 00
	B. G. King.....	34 " " " ".....	523	4 25
	C. K. McClelland.....	46 " " " ".....	524	5 75
	W. D. Marsh.....	235 hours work @ 12 ¹ / ₂ c	525	29 38
	Glenn & Schroeder	45 hours labor on campus.....	526	5 63
	E. A. Marsh	67 " " " ".....	527	8 38
	C. A. Whitney	170 " " " ".....	528	21 33
	D. A. Givens.....	55 " " " ".....	529	6 88
	F. H. Whiteman	80 " " " ".....	530	10 00
	Freda Detmers.....	Labor on herbarium	531	22 80
	Florence D. Cope.....	Services as clerk	532	37 50
	Maud Jeffrey.....	56 hours assistance in library...	533	7 00
	Gertrude Kellicott	44 " " " ".....	534	5 50
	Georgietta Fisher.....	122 " " " ".....	535	15 25

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1895.				
Oct. 3	E. E. Davis.....	Work in elec. laboratory	536	\$2 20
	Arthur Grimm.....	52½ hours labor as guide	537	6 56
	Harry Bradshaw.....	23 " "	538	2 87
	W. G. Minkler.....	51½ " "	539	6 44
	E. F. Coddington.....	42 h'rs and 50 min. lab. as guide	540	5 35
	E. H. French.....	83½ hours labor as guide	541	10 43
	M. M. Rarick	51½ " " @ 12½	542	6 44
	Russell M. Seward	23½ " "	543	2 94
	West. Union Tel. Co	Telephone service	544	2 95
	U. S. Express Co	Freight.....	545	4 55
	T. Ewing Miller.....	Expense fitting up and moving to new office	546	48 40
	Ernest Scott	80 hours labor inf. bureau.....	547	10 80
	D. V. Burkett.....	80 " "	548	10 80
	Dunn, Taft & Co	1 dozen towels.....	549	2 85
	Warren K. Morehead.....	Purchases, dep't Archaeology... ..	550	17 00
	Krauss, Butler & B. Co....	Carpets, shades, mats, etc	551	257 39
	H. Cole.....	3 boxes thumb tacks.....	552	1 35
	The Columbus Gas Co....	5 No. 20 Weisbach burners.....	553	12 50
	C. A. Hyle.....	19½ hours labor.....	554	2 93
	H. Scott Gray.....	Copying ribbons.....	555	3 00
	American Express Co....	Freight.....	556	5 05
	Nichols & Flynn	Sign used State fair week	557	2 25
	P. F. Yoerger	Muslin ban'r, 34x30—alum lett's	558	31 00
	The Columbus Gas Co....	Lights, gas connections.....	559	10 00
	Gen. U. Telephone Co....	Telephone service	560	56 00
	J. F. Cunningham.....	50 hours janitor work.....	561	7 50
	Schoedinger, Fearn & Co	Hardware	562	2 25
	Engelke & Bigelow.....	Freight and Cartage.....	563	121 25
	J. R. Spurrier.....	24 hours janitor work.....	564	3 60
	Chas. S. Hawley.....	97 " "	565	12 12
	Benj. Le Bay.....	Work at veterinary dep't.....	566	14 25
	Thos. E. French	6 Japanned tin, gold leaf labels	567	1 20
	Richmond Chair Co	8 dozen oak table chairs.. ..	568	96 00
	D. V. Burkett.....	53 h'rs inf. bureau and purchases	569	9 28
	T. C. Southard.....	" "	570	4 50
	F. G. Howald & Co.....	7 dozen rubber tips	571	1 75
	Wells, Fargo & Co.....	Expressage	572	6 85
	Logan McCormick	40 frames	573	8 00
	Nitschke Paper Co	Paper, pens, etc	574	3 50
	T. E. French.....	12 hours lettering	575	3 60
	Standard Oil Co	Oil	576	12 21
	Lucian McCollum.....	Carpenter work.....	577	5 83
	Herbert King.....	" "	578	60
	Chas. H. Woodruff	" "	579	30 00
	Engelke & Bigelow.....	Freight and cartage	580	59 98
	The Tracy-Wells Co.....	Waste baskets	581	5 36
	Tallmadge Hardware Co.	Hardware	582	11 20
	Thos. D. Rea.....	Carpenter work.....	583	8 88
	Jeffrey Manufacturing Co	Repairs.....	584	18 16
	Ira B. Allen	Carpenter work	585	33 01
	John W. Reams.....	" "	586	35 77
	Laclede Fire B'k M't'g Co	Retorts, tile, etc.....	587	229 82
	Edwin Kelton	Lumber	588	23 45
	Central Electric Co.....	E'ect. appliances.....	589	16 32
	The Yale & Towne Co....	Resetting, cylinders, etc.....	590	2 24
	Pneu. Watch Check Co	Watchman's clock.....	591	1 00

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1895.				
Oct. 3	H. W. Johns Mfg. Co.....	A. S. Felted covering, etc.....	592	\$16 20
	H. M. Beibel.....	Plant work, 117 hours, @ 10c...	593	11 70
	D. C. Thomas.....	54 hours painting @ \$2; 1 day cleaning rubber @ \$1.25..	594	12 05
	Tallmadge Hardware Co.	Hardware.....	595	29 11
	F. H. Blackburn.....	Work on elect. plant.....	596	6 50
	B. D. Potts.....	Pipe, fittings, etc.....	597	50 75
	J. B. Given.....	Janitor work.....	598	4 87
	Sam Hacken.....	Laying brick floor.....	599	13 00
	R. F. Fletcher.....	Work on power plant.....	600	32 10
	Col. Sewer Pipe Co.....	4 sacks cement.....	601	1 80
	Chas. W. Johnson.....	Work on elec. plant.....	602	6 25
	Geo. Trowbridge.....	Carpenter work.....	603	25 27
	J. R. Spurrier.....	Work on elec. plant.....	604	36 35
	Blackwood, Green & Co..	Hardware repairs, etc.....	605	63 92
	Elect. Appliance Co.....	Elect. supplies.....	606	59 16
	Kerr-Murray Mfg. Co.....	Mch. faced and drilled, pipe, etc.	607	6 00
	Fish Press Brick Co.....	1,000 case, 1,000 zing. brick.....	608	10 50
	H. Braun, Sons & Co.....	Turpentine, boiled oil.....	609	3 55
	Hirschman Bros.....	Repairing furnace.....	610	53 00
	Payne McDonald.....	1 flat, 1 round brush.....	611	2 75
	Haydenville M. & M. Co.	Fire clay and brick.....	612	37 00
	Lewis Fink.....	Papering, painting, etc.....	613	118 13
	E. C. Kissinger.....	Lime, cement, etc.....	614	8 50
	A. W. Madden.....	Papering, etc.....	615	377 25
	C. E. Nicholas.....	50 3/4x3 bushings.....	616	1 00
	F. A. & W. J. Hutchinson	80 ft. 3/4 conduit.....	617	2 00
	Col. Edison E. Light Co.	Insulators.....	618	4 55
	Neski & Huffman.....	Plumbing repairs and changes..	619	351 43
	Col. Machine Co.....	1 cast plate.....	620	2 50
	T. A. Randall & Co.....	Ac. 1/2 page 3 times.....	621	42 00
	Windsor & Kenfield.....	1 H. T. engraving.....	622	1 50
	John H. McCormick.....	Drawing of Rattler machine.....	623	5 20
	B. D. Potts.....	Pipe, caps, cocks, etc.....	624	9 24
	Edward Orton, Jr.....	Expressage paid on packages..	625	1 70
	Tallmadge Hardware Co.	Hardware.....	626	8 85
	Eimer & Amend.....	1 doz. 3 ring tripods, etc.....	627	9 43
	Engelke & Bigelow.....	Freight and cartage.....	628	2 81
	Schoedinger, Fearn & Co.	3 Mart. locks.....	629	1 75
	Jas. Ohlen & Sons.....	Hand saws polished, etc.....	630	3 50
	Albert C. Lowry.....	1 mattress.....	631	25 00
	Jas. H. Canfield.....	Expressage paid.....	632	1 75
	W. M. Taylor M. & G. Co.	1 show case 30 ft. long.....	633	110 00
	Bausch-Lomb Optical Co.	Microscopes, thermometers, etc	634	249 75
	Jas. Leaman.....	10 insect cases.....	635	12 50
	A. E. Sellenings.....	3 Flowers Osteology, pen holder; etc.....	636	8 40
	Jos. H. James.....	Herbarium.....	637	75 00
	J. H. King.....	5 hours labor @ 15c.....	638	75
	W. H. Kellerman.....	Freight, postage and collecting..	639	11 12
	Payne-McDonald H. Co.	Latches, brushes, etc.....	640	3 58
	Williams, Brown & Earl	Jars, glasses, etc.....	641	10 33
	Wells, Fargo & Co.....	Freight and cartage.....	642	5 90
	Engelke & Bigelow.....	".....	643	5 34
	Engelke & Bigelow.....	".....	644	14 37
	Fitchburg Mach. Works..	Lathe.....	645	220 00
	Tallmadge Hdw. Co.....	Tape, emory cloth, etc.....	646	2 25

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1895.				
Oct. 3	R. A. McClure.....	5 cases with shelves.....	647	\$39 75
	H. Mithoff & Co.....	Ladder, tape, spg. balances	648	8 60
	Schaffer & Budenberg....	Throttling calarimeter.....	649	16 00
	G. W. Crandell.....	2 tanks and copper cups.....	650	3 20
	The Dennison Mfg. Co....	1½ gross wood mailing boxes.....	651	12 25
	Tallmadge Hardware Co.	Hardware	652	2 76
	H. M. Biebel.....	Laboratory work	653	3 50
	Void .....	.....	654	.....
	C. W. Johnson	Labor in elec. lab	655	3 25
	B. F. LeBay	Services as fireman	656	10 50
	Wm. Standley	"	657	25 50
	Mrs. D. A. Crouner.....	" type writer.....	658	8 00
	H. Braun Sons & Co.....	Isinglass plaster silk, etc.....	659	1 25
	H. E. Brown & Sons	1,500 copies med. plants of Ohio.	660	15 90
	A. J. Mitchell.....	2 dozen frogs.....	661	5 00
	Cherington P. & Eng. Co.	1 stamp and 1 ink pad	662	1 25
	McClelland & Co	Paper fasteners, pens	663	70
	Robert L. Seeds	2 tons Gluten meal	664	34 00
	B. F. Shuart	1 Shuart land grader	665	22 00
	J. K. Farver	Repairing dynamometer	666	2 50
	Hann & Adair	1,000 score and 200 blank cards.	667	8 17
	General Elec. Co	Globes, etc.....	668	5 00
	A. W. Livingston's Sons..	Grass seed	669	12 85
	Chas. A. Oare	Brick work on chimneys	670	15 00
	Columbus Dispatch.....	Advertising.....	671	18 30
	News-Herald Pub. Co....	"	672	2 75
	Windsor & Kenfield	½ page ad	673	16 67
	Hann & Adair	Matriculation cards	674	11 75
	Nitschke Bros.	Circulars and entrance cards ..	675	70 75
	Ohio State Journal Co ..	Advertising	676	4 50
	Spahr & Glenn.....	5,000 6 p. leaflets	677	14 00
	The Lantern	Advertising	678	12 50
	Hann & Adair	"	679	20 95
	Jas. H. Canfield	Cash paid, express charges	680	4 40
7	E. B. Kinkad	Law school	681	100 00
	H. H. Walling	6 gallons floor paint	682	9 00
9	Columbus Gas Co.....	Gas used during Sept., 1896	683	37 40
11	Columbus Post-office.....	500 2-c, 200 1-c stamps	684	12 00
12	Columbus Post-office.....	200 2-c, 100 1-c stamps	685	5 00
16	American Express Co....	Freight on packages	686	25 00
18	J. H. Collins	Bal. due for law lectures, '94-5..	687	197 49
26	James H. Canfield.....	1½ salary, October, inst.....	688	600 00
	Thos. F. Hunt	"	689	250 00
	Edward Orton	"	690	225 00
	W. H. Scott	"	691	225 00
	Samuel C. Derby	"	692	225 00
	W. R. Lazenby	"	693	225 00
	J. R. Smith	"	694	225 00
	H. A. Weber	"	695	225 00
	B. F. Thomas	"	696	225 00
	Geo. W. Knight.....	"	697	225 00
3	R. D. Bohannon	"	698	225 00
	D. S. Kellicott	"	699	225 00
	C. Newton Brown	"	700	225 00
	E. A. Eggers.....	"	701	225 00
	A. M. Bleile	"	702	225 00
	W. A. Kellerman.....	"	703	225 00

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1895.				
Oct. 26	A. L. Williston.....	$\frac{1}{10}$ salary, October inst.....	704	\$220 00
	B. L. Bowen	" "	705	210 00
	A. C. Barrows	" "	706	210 00
	J. V. Denney	" "	707	210 00
	W. W. Lord	" "	708	200 00
	W. F. Hunter	" "	709	200 00
	G. B. Kauffman	" "	710	200 00
	Edw. Orton, jr	" "	711	180 00
	J. N. Bradford	" "	712	180 00
	Frank A. Ray.....	" "	713	180 00
	Wm. McPherson	" "	714	180 00
	Geo. W. McCoard.....	" "	715	160 00
	Sidney A. Norton	" "	716	120 00
	F. C. Caldwell.....	" "	717	120 00
	Henry C. Lord	" "	718	120 00
	E. A. Kellerman	" "	719	120 00
	Robert I. Fulton	" "	720	120 00
	E. A. Hitchcock.....	" "	721	120 00
	C. W. Mesloh	" "	722	100 00
	W. D. Gibbs	" "	723	100 00
	D. S. White	" "	724	100 00
	Thos. E. French.....	" "	725	90 00
	F. C. Clarke.....	" "	726	90 00
	Olive B. Jones	" "	727	80 00
	C. W. Weick.....	" "	728	80 00
	W. A. Knight.....	" "	729	80 00
	F. J. Combs.....	" "	730	80 00
	N. H. Brown.....	" "	731	80 00
	J. R. Taylor	" "	732	75 00
	J. S. Hine	" "	733	75 00
	L. M. Bloomfield	" "	734	70 00
	C. B. Morrey.....	" "	735	70 00
	J. A. Bownocker.....	" "	736	70 00
	A. P. Winston	" "	737	70 00
	C. L. Arnold	" "	738	70 00
	Clair A. Dye.....	" "	739	70 00
	Ernest Bradford.....	" "	740	60 00
	Harry M. Ball	" "	741	60 00
	T. K. Lewis	" "	742	50 00
	C. A. Bruce	" "	743	50 00
	F. L. Landacre.....	" "	744	50 00
21	The Monarch Distillery..	138 $\frac{28}{100}$ gallons alcohol @ 40c...	745	55 31
26	Karl D. Swartzel ..	$\frac{1}{10}$ salary, October inst.....	746	40 00
	W. L. Evans	" "	747	30 00
	Ray M. Hughes	" "	748	30 00
	Harriet Townsend	" "	749	30 00
	Frank Haas.....	" "	750	30 00
	E. M. Wilcox	" "	751	25 00
	G. H. Calkins.....	" "	752	25 00
	F. E. Kester	" "	753	25 00
	W. K. Morehead	Salary for October.....	754	50 00
	Alexis Cope	" "	755	187 50
	F. W. Prentiss	" "	756	33 33
	W. C. McCracken.....	" "	757	100 00
	Chas. Low	" "	758	50 00
	Thos. Boude	" "	759	45 00
	James Kelly	" "	760	41 66

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1895.				
Oct. 26	Wm. Whitestone	Salary for October	761	\$45 00
	Fred B. Brewer	" "	762	40 00
	Wash. Townsend	" "	763	40 00
	J. H. Brown	" "	764	40 00
	John Conrad	" "	765	40 00
	Fred W. North	" "	766	40 00
	Jean Blackford	" "	767	45 00
	C. B. Hine	" "	768	45 00
	Edith Cockins	" "	769	40 00
24	Columbus Post-office	600 1-ct. stamps	770	6 00
26	W. Standley	Salary for October, 1895	771	40 00
	Benj. LeBay	" "	772	40 00
	F. E. Pearson	$\frac{1}{10}$ salary, October inst	773	34 50
	Carl Huddleson	Salary, "	774	8 65
	Romeo O. Keiser	$\frac{1}{10}$ salary, " 1895	775	30 00
28	Columbus Post-office	500 1-ct. stamps	776	5 00
29	Lee A. Frayer	Serv. as janitor, Sept. 16 to Oct. 31, 1895 ..	777	30 00
		Services as Sec., law faculty ..	778	75 00
Nov. 1	Columbus Post-office	500 1-ct. env., 500 2 ct. stamps ..	779	15 55
	E. B. Kinkade	Sal as Sec law fac., Oct., 1895 ..	780	100 00
2	John T. Martin	38 hrs. inst. in math. @ \$1.16 ..	781	44 32
5	E. O. Randall	17 hours lectures law sch., Sept. and Oct ..	782	51 00
7	Florence D. Cope	Services as clerk	783	46 50
	F. Charles	Freight and cartage	784	17 60
	F. O. Kindig	Services rendered vet. dept ..	785	1 80
	Michigan Brush Co.	Brushes, 13 dozen	786	26 40
	W. G. Worcester ..	Serv., vet. dept., 25 hrs. @ 15c ..	787	3 75
	G. W. Bope	Music and metal polish for band ..	788	6 80
	Koch's Music Store ..	Balance due for band music ..	789	2 40
	McAllister, Moler & Co ..	Chairs, cot mattress, etc	790	32 50
	W. U. Telegraph Co	Telegraph service	791	2 20
	Am. Dist. Telegraph Co ..	Messenger service	792	29 15
	Clarence Sullivan	5 hours as guide	793	63
	McClelland & Co	Pencils, sponge cup etc	794	2 45
	Westinghouse E. & M. Co ..	Machinery, 60 K. W. Generator ..	795	800 00
	W. O'mstead	Blackboards ..	796	32 10
	The Tracy-Wells Co	Fire pails	797	9 45
	Columbus Brass Co	Brass brackets, screws, etc	798	2 80
	Tallmadge Hdw. Co	1 dozen plated brackets	799	3 00
	J. F. Cunningham	50 hours services as guide	800	6 25
	Chas. S. Hawley	Janitor service, 93 hrs. @ 12 $\frac{1}{2}$ c ..	801	11 62
	F. Charles	Freight and cartage	802	1 25
	O. S. Lear	One sponge cup	803	85
	J. R. Spurrier	Janitor service, 58 $\frac{1}{2}$ hrs. @ 15c ..	804	8 74
	Jas. Stainbrook	Labor as fireman, 23 d. @ \$1.50 ..	805	34 50
	F. Charles	Freight and cartage	806	2 00
	Ira H. Miller	Services as notary	807	5 30
	A. C. Harvey	Mailing comm. invitations	808	2 40
	Engelke & Bigelow ..	Freight and cartage	809	9 77
	Col. Transfer Co	" "	810	75
	W. S. Wiggins	Stamps, rubber	811	40
	C. A. Grate	Repairs in elec. lab	812	3 75
	J. B. Given	Janitor work	813	16 22
	Frank Huddleson	Services as guide	814	15 48
	J. W. Bradford	" architect	815	50 00

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1895.				
Nov. 7	O. W. Aldrich.....	72 law lectures, Sept. & Oct., '95	816	\$216 00
	Chas. Johnson.....	Services as night watchman.....	817	1 50
	Benj LeBay	" " " " " " " " " " " "	818	1 50
	H. C. Lord.....	Bills paid, expressage, etc.....	819	13 50
	Walter Fischer.....	W'k on campus, 30 hrs. @ 12½c..	820	3 75
	J. T. Dallas.....	" " " " " " " " " " " "	821	3 25
	H. A. Patch.....	" " " " " " " " " " " "	822	3 50
	E. E. Bogue.....	Lab. on grounds, 17½ " " " " " "	823	2 60
	F. L. Carr.....	Lab. on camp's, 221 " " " " " "	824	27 63
	K. Nurain.....	" " " " " " " " " " " "	825	28 63
	Samuel Carson.....	" " " " " " " " " " " "	826	6 25
	C. A. Whitney.....	" " " " " " " " " " " "	827	18 50
	L. M. Johnston.....	" " " " " " " " " " " "	828	10 00
	J. H. King.....	" " " " " " " " " " " "	829	10 88
	Ed. McGovern.....	" " " " " " " " " " " "	830	25 25
	R. S. West.....	" " " " " " " " " " " "	831	10 75
	W. D. Griffith.....	" " " " " " " " " " " "	832	30 75
	Whiffield Duval.....	" " " " " " " " " " " "	833	26 75
	D. O. Callaghan.....	" " " " " " " " " " " "	834	13 75
	W. A. Hoff.....	" " " " " " " " " " " "	835	12 38
	S. McKnight.....	" " " " " " " " " " " "	836	35 50
	H. W. Libbett.....	" " " " " " " " " " " "	837	32 63
	W. D. Marsh.....	" " " " " " " " " " " "	838	6 25
	A. J. Chantler.....	" " " " " " " " " " " "	839	29 00
	J. W. Older.....	" " " " " " " " " " " "	840	22 38
	E. N. Beardsley.....	" " " " " " " " " " " "	841	10 38
	A. M. Keem.....	" " " " " " " " " " " "	842	2 25
	W. H. Uncapher.....	" " " " " " " " " " " "	843	1 13
	Frank Aten.....	" " " " " " " " " " " "	844	6 00
	Wm. Gilmore.....	" " " " " " " " " " " "	845	8 50
	M. Staley.....	" " " " " " " " " " " "	846	1 25
	Archie Ward.....	" " " " " " " " " " " "	847	11 25
	Chas. Mooney.....	" " " " " " " " " " " "	848	8 88
	Karl Starbuck.....	" " " " " " " " " " " "	849	2 50
	C. K. McClelland.....	" " " " " " " " " " " "	850	3 63
	V. H. Davis.....	" " " " " " " " " " " "	851	5 38
	J. Mills.....	" " " " " " " " " " " "	852	3 75
	H. S. King.....	" " " " " " " " " " " "	853	5 75
	Dwight Rogers.....	" " " " " " " " " " " "	854	9 13
	P. E. Bryant.....	" " " " " " " " " " " "	855	4 38
	J. A. Beer.....	" " " " " " " " " " " "	856	2 38
	J. C. Britton.....	" " " " " " " " " " " "	857	9 00
	C. B. Steward.....	" " " " " " " " " " " "	858	3 38
	A. Barker.....	" " " " " " " " " " " "	859	3 38
	F. M. Randolph.....	" " " " " " " " " " " "	860	2 25
	G. A. Flickinger.....	" " " " " " " " " " " "	861	3 38
	Haines Huff.....	" " " " " " " " " " " "	862	4 13
	J. S. Oldham.....	" " " " " " " " " " " "	863	1 25
	J. E. Adams.....	" " " " " " " " " " " "	864	9 00
	Thos. Gale.....	" " " " " " " " " " " "	865	10 00
	W. M. Britton.....	" " " " " " " " " " " "	866	3 20
	R. Kuschke.....	" " " " " " " " " " " "	867	6 25
	H. Chantler.....	" " " " " " " " " " " "	868	17 25
	C. M. Waid.....	" " " " " " " " " " " "	869	1 38
	J. W. Patterson.....	" " " " " " " " " " " "	870	10 50
	G. C. Masters.....	" " " " " " " " " " " "	871	66 00

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1895.				
Nov. 7	Wm. Haynes.....	Labor on campus, haul'g stone, 295 hours @ 30c.....	872	\$158 06
	H. A. Patterson	Labor on campus, 45 hrs. @ 30c.	873	13 50
	Cornelius Callaghan	" 270 " 30c	874	81 00
	Z. N. Barber	"	875	8 80
	John Brown.....	Lab. by son Eddie, 290 hrs. @ 4c.	876	11 60
8	Thos. D. Rea.....	29 hours carp. work @ 27½c	877	8 05
	D. C. Thomas	Painting waste paper boxes.....	878	2 00
	Chas. H. Woodruff.....	Bill paid by same	879	2 21
	Cap. City Mach. Works..	Drilling, forging, etc	880	2 54
	B. D. Potts.....	Bolts, cocks, pipe, etc	881	8 01
	Cap. City Mach. Works..	Repairs on machinery	882	34 81
	Tallmadge Hdw. Co	Locks, handles, screws, etc.....	883	15 94
	Tallmadge Hdw. Co	Screws, bolts, etc	884	2 28
	Blackwood, Green & Co..	Tin, slate, etc., labor.....	885	57 32
	Lewis Fink	Painting, papering, etc.....	886	104 11
	The Fish Stone Co.....	Stone and resetting steps	887	63 00
	Neski & Huffman	Plumbing and repairs.....	888	69 46
	Baker & Adamson.....	Chemicals	889	9 45
	C. T. Hirtler.....	Labor at gas plant.....	890	72 80
	Borger Bros. & Co	Material and labor rep'g boiler at green house	891	37 29
	Central Electric Co	Electrical machinery, etc.....	892	43 62
	H. Mithoff & Co.....	Lantern and bar solder.....	893	90
	Edison Electric Light Co.	2 rolls Manson tape.....	894	70
	N. Y. & O. Incandescent Lamp Co	Incandescent lamps.....	895	78 20
	Elliot & McClean	Lumber	896	12 00
	J. R. Spurrier	Work on elec. installation.....	897	30 50
	J. B. Given	" lockers.....	898	1 65
	H. M. Biebel.....	" plant	899	2 05
	Hugo Diemer	Wiring at Hayes hall & chapel..	900	2 64
	E. Kelton & Co.....	Lumber	901	42 84
	J. W. Reams.....	Carpenter work.....	902	31 47
	Geo. Trowbridge	"	903	7 77
	C. H. Woodruff.....	" etc	904	15 55
	Edwin Kelton & Co.....	Lumber	905	9 48
	E. W. Pegg	Pasturing stock, etc.....	906	307 86
	Robert L. Seeds	Gluten meal	907	38 50
	Jacob Weisheimer.....	Grinding	908	10 71
	Jas. Penn	256½ bushels oats	909	64 10
	Creamery Package Co.....	Balance due on bill..	910	1 58
	The W. E. Hook Whole- sale View Co.....	6 lantern slides..	911	4 50
	Kimball & Mathews	Mdse	912	75
	G. W. Crandell.....	29 copper lids	913	1 50
	W. D. Gibbs	Payment to G. W. Candell	914	10 00
	Mrs. D. A. Crowner.....	Agr. clerical assistance.....	915	10 00
	Tallmadge Hdw. Co	Screw driver, pulleys, etc	916	2 70
	H. R. Worthington.....	Hot water meter.....	917	10 00
	F. Charles	Freight and cartage.....	918	6 35
	Ashcroft Mfg. Co.....	Labor, spud counters	919	8 13
	Engelke & Bigelow.....	Freight and cartage	920	1 58
	Columbus Supply Co.....	Plugs, caps, etc.....	921	2 31
	H. Cole	Steel tape, tacks, etc	922	16 55
	C. H. Woodruff.....	Carpenter work.....	923	1 66
	F. Charles	Freight and cartage	924	1 44

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1895.				
Nov. 8	A. H. Smythe	1 blank record	925	\$2 25
	W. T. Falconer Mfg. Co..	1,000 blocks	926	3 00
	A. Smith & Sons	Insect case, labels, etc.	927	29 15
	H. Braun, Sons & Co	Sharpening instruments, etc....	928	27 48
	W. H. Pierce & Co.....	Books and charts	929	26 60
	Engelke & Bigelow.....	Freight and cartage	930	30 33
	A. W. Jackson & Son.....	Mounting blue prints	931	17 82
	Shilling Foundry Co.....	Castings and drayage	932	12 41
	Elliott & Maclean	Lumber	933	31 55
	Edwin Kelton & Co.....	"	934	2 00
	Kelton & Converse	"	935	14 45
	The Hanna Paint Mfg. Co.	Paint, oil, turpentine, etc	936	19 02
	J. R. Spurrier	Helping Mr. Knight	937	7 73
	Tallmadge Hdw. Co	Sand paper, glue, etc	938	12 62
	P. Hayden Sad. Hdw. Co.	Iron	939	30 00
	The Q. & C. Co.	Saw blades	940	3 00
	F. Charles	Freight and cartage	941	75
	Blackwood, Green & Co.	Iron, hardware, etc	942	36 90
	Jones & Laughlin	Shaft, hangers, pulley, etc....	943	28 80
	Col. Supply Co.....	Wall caps	944	74
	Queen City Supply Co...	Iron and hardware	945	23 44
	Frank H. Clement Co.....	Surface planer	946	135 00
	Hanna Paint Mfg. Co.....	Paint, oil, etc	947	11 65
	Edwin Kelton & Co.....	Lumber	948	25 22
	Library Bureau	Book supports, etc	949	19 00
	Engelke & Bigelow.....	Freight and cartage	950	2 77
	Thos. D. Rea	Carpenter work	951	3 89
	Charles H. Woodruff.....	28 hours carpenter work	952	7 78
19	F. W. Prentiss, Treas.....	Bal. to order of G. Fock—books	953	141 95
8	Geological Pub. Co.....	1 set American Geologist	954	22 00
	A. C. McClurg & Co.....	Books	955	14 85
	D. Appleton & Co.....	Pay't on Johnson's Cyclopaedia..	956	7 00
14	Ft. Wayne Elec. Co.....	Electrical apparatus	957	3 24
8	J. A. Bownocker	Expressage paid	958	90
	Olive B. Jones	"	959	53
	Jas Penn	Cartage	960	50
	J. W. Reams	9 hours carpenter work	961	2 50
	Dr. A. E. Foote	Owen's Odontography	962	15 00
	A. H. Smythe	Books	963	91 99
	G. E. Stechert	"	964	129 81
	W. K. Moorehead	Bill paid, dep't arch	965	47 55
	S. J. Isabel	6,500 paving brick	966	39 00
	H. Braun, Sons & Co.....	Repairs of instruments, etc	967	18 05
	D. S. White	Sup. bought for vet. dep't	968	9 75
	Nitschke Bros	Printing, etc	969	6 00
	Tallmadge Hardware Co.	Rope, pulleys, etc	970	6 15
	Halley Plumbing Co.....	Hose and brass nozzle	971	9 75
	Gertrude Kellicott	Ass't in library, 86 hours	972	10 75
	G. S. Marshall	Work " 74 "	973	9 25
	C. B. Guittard	" " 68 "	974	8 50
	John W. Reams	10 hours carpenter work	975	2 78
	Engelke & Bigelow.....	Freight and cartage	976	19 24
	Col. Rubber and Belt. Co.	Rubber belt, etc	977	6 54
	Col. Rubber and Belt. Co.	"	978	2 95
	Edwin Kelton & Co.....	Lumber	979	3 75
	Ohio Valley Clay Co.....	1 bbl. prepared clay	980	9 89
	P. Hayden Sad. Hdw. Co..	Rattler machine	981	150 10

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1895.				
Nov. 8	F. Charles.....	Freight and cartage.....	982	\$7 50
	H. E. Brown & Sons.....	Use of engine, iron etc.....	983	21 90
	Windsor & Kenfield.....	½ page adv.....	984	16 66
	Newark L'ie & C't Mfg. Co.....	2 bbls. pottery plaster.....	985	2 90
	C. H. Woodruff.....	3 hours carpenter work.....	986	83
	Stitt, Price & Co.....	Lime, cement, etc.....	987	3 00
	Penn. Fuel Co.....	Coal del. in Sept. and Oct., 1895	988	192 30
	Franklin Fuel Co.....	Fuel.....	989	174 80
	Hann & Adair.....	Printing cards, etc.....	990	12 78
	West. Pub. Co.....	Am. and Eng. Enc. of Law.....	991	6 00
	Bansch-Lomb Optical Co.....	Utensils, instruments, etc.....	992	262 82
	Cent. Ohio Paper Co.....	Paper, ledger, etc.....	993	33 70
	Elisha T. Jenks.....	5 locks.....	994	10 00
	Freda Detmers.....	Labor copying labels.....	995	2 70
	F. Charles.....	Drayage.....	996	1 75
	Whitall, Tatum & Co.....	Jars.....	997	45 46
	Col. Dispatch.....	Advertising.....	998	4 25
	Ohio Farmer.....	".....	999	31 92
	Hann & Adair.....	Printing slips and cards.....	1000	6 35
	Col. Daily Press-Post.....	Advertising.....	1001	5 25
	O. S. Journal Co.....	".....	1002	13 20
	Col. Dispatch.....	".....	1003	9 65
	H. E. Brown & Sons.....	500 new student cards.....	1004	2 00
	Nitschke Bros.....	Printing.....	1005	185 73
	Agric. Student Pub. Co.....	Advertising.....	1006	25 00
	O. T. Corson.....	Ad. in Ohio Educ. Monthly.....	1007	22 50
	The Dial Pub. Co.....	Advertising.....	1008	2 50
	D. Y. Murdoch.....	Ad. in Ohio Conf. Minutes.....	1009	10 00
	C. H. Stoelting Mfg. Co.....	50 bisque plates.....	1010	4 50
	Smith Bros. Hdw. Co.....	Files, tapers, etc.....	1011	15 00
	Baker & Co.....	Platinum dishes, etc.....	1012	150 81
	W. A. Gill & Co.....	Lids.....	1013	3 00
	Kauffman, Lattimer & Co.....	Drugs and chemicals.....	1014	171 09
	Malinckrodt Chem. Wks.....	Chemicals.....	1015	62 41
	Emil Greiner.....	Filters, iron, etc.....	1016	54 66
	Lawrence Press Co.....	Students' outfit cards.....	1017	1 85
	The Tracy-Wells Co.....	2,004 stick tickets.....	1018	1 20
	Wells, Fargo & Co.....	Freight.....	1019	2 05
	Alexis Cope.....	Expressage paid.....	1020	13 85
	Am. Express Co.....	Freight and cartage.....	1021	9 60
	C. A. Oare.....	Labor and brick work.....	1022	43 00
13	W. I. Chamberlain.....	Exp. meeting Nov. 12, 1895.....	1023	13 45
	T. J. Godfrey.....	".....	1024	10 00
	John T. Mack.....	".....	1025	11 40
14	J. M. Jones.....	100 stands and 50 racks.....	1026	40 00
13	Lawrence Press Co.....	Printing.....	1027	7 75
14	Kimball & Mathews.....	Photo supplies.....	1028	8 45
	Baker & Co.....	Crucible covers.....	1029	27 44
	Western Elec. Co.....	Elec. machinery, etc.....	1030	10 28
	Central Electric Co.....	Electrical supplies.....	1031	15 82
	Harrington & Co.....	Repairing stop watch.....	1032	3 00
	Wolfram Guitar Co.....	Frog, bow screw, etc.....	1033	4 15
	Col. Paint Mfg. Co.....	1 gal. paint.....	1034	1 75
	H. Mithoff & Co.....	Screws, sand paper, etc.....	1035	8 36
	Col. Brass Co.....	16 lbs. castings.....	1036	4 00
	Nitschke Bros.....	Cards and paper.....	1037	2 25
	Tallmadge Hdw. Co.....	Brass rod and iron wire.....	1038	1 70

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1895.				
Nov. 14	E. P. Reichhelm.....	No. 3 muffles	1039	\$2 20
	Kilbourne & Jones Co ...	Scale and tin scoop.....	1040	15 15
	Spahr & Glenn.....	Circulars, envelopes, etc.....	1041	9 00
	Westinghouse Elec. & Mfg. Co.....	Elec. supplies.....	1042	53 00
	Chas. Schwake	Seeds and bot. supplies.....	1043	5 00
	Adam Beach.....	Set of brass patterns.....	1044	12 00
	Emil Greiner	Chem. supplies.....	1045	39 70
	J. Carbutt	Plates, etc	1046	43 43
	Col. Post-office	500-2c, 200-1c stamps.....	1047	12 00
	G. W. Crandell.....	Galv. iron boxes, etc.....	1048	8 00
	Nitschke Bros.....	500 store room cards.....	1049	1 75
	Cen. Ohio Paper Co	Glazed paper and mounts	1050	7 50
	Col. Supply Co.....	58 lbs. asbestos boards	1051	5 80
	Kauffman-Lattimer Co....	Chemicals, drugs, etc	1052	262 06
15	Col. Post-office	500-2c, 100-5c, 200-4c stamps	1053	23 00
16	Geo. W. Knight.....	14 lectures, law school, Septem- ber and October, 1895.....	1054	42 00
18	Col. Post-office	200-5c, 200-3c postage stamps.....	1055	16 00
	Col. Water Works.....	Water for 6 months, ending No- vember 1, 1895	1056	254 99
21	Paul Jones	18 law lectures.....	1057	54 00
	Col. Post-office	500-2c postage stamps	1058	10 00
25	Excelsior Rub. Stamp Co.	2 autograph stamps.....	1059	3 00
30	Jas. H. Canfield.....	$\frac{1}{10}$ salary November inst., 1895.....	1060	600 00
	Thos. F. Hunt	" " " " " "	1061	250 00
	W. H. Scott.....	" " " " " "	1063	225 00
	S. C. Derby	" " " " " "	1064	225 00
	W. R. Lazenby.....	" " " " " "	1065	225 00
	J. R. Smith.....	" " " " " "	1066	225 00
	Edward Orton	" " " " " "	1062	225 00
	H. A. Weber.....	" " " " " "	1067	225 00
	B. F. Thomas	" " " " " "	1068	225 00
	Geo. W. Knight.....	" " " " " "	1069	225 00
	R. D. Bohannon.....	" " " " " "	1070	225 00
	D. S. Kellicott.....	" " " " " "	1071	225 00
	C. N. Brown	" " " " " "	1072	225 00
	E. A. Eggers	" " " " " "	1073	225 00
	A. M. Bleile	" " " " " "	1074	225 00
	W. A. Kellerman.....	" " " " " "	1075	225 00
	A. L. Williston.....	" " " " " "	1076	220 00
	B. L. Bowen	" " " " " "	1077	210 00
	A. C. Barrows.....	" " " " " "	1078	210 00
	J. V. Denney	" " " " " "	1079	210 00
	N. W. Lord	" " " " " "	1080	200 00
	W. F. Hunter.....	" " " " " "	1081	200 00
	Geo. B. Kauffman	" " " " " "	1082	200 00
	Edw. Orton, Jr.....	" " " " " "	1083	180 00
	J. N. Bradford.....	" " " " " "	1084	180 00
	F. A. Ray	" " " " " "	1085	180 00
	W. McPherson.....	" " " " " "	1086	180 00
	G. W. McCoard	" " " " " "	1087	160 00
	S. A. Norton.....	" " " " " "	1088	120 00
	F. C. Caldwell.....	" " " " " "	1089	120 00
	Henry C. Lord.....	" " " " " "	1090	120 00
	E. A. Kemmler.....	" " " " " "	1091	120 00
	Robt. I. Fulton.....	" " " " " "	1092	120 00

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1895. Nov. 30	E. A. Hitchcock.....	$\frac{1}{10}$ salary November inst., 1895..	1093	\$120 00
	W. D. Gibbs.....	" " " " " "	1094	100 00
	C. W. Mesloh.....	" " " " " "	1095	100 00
	D. S. White.....	" " " " " "	1096	100 00
	T. E. French.....	" " " " " "	1097	90 00
	F. C. Clarke.....	" " " " " "	1098	90 00
	O. B. Jones.....	" " " " " "	1099	80 00
	C. W. Weick.....	" " " " " "	1100	80 00
	W. A. Knight.....	" " " " " "	1101	80 00
	F. J. Combs.....	" " " " " "	1102	80 00
	N. H. Brown.....	" " " " " "	1103	80 00
	J. R. Taylor.....	" " " " " "	1104	75 00
	J. S. Hine.....	" " " " " "	1105	75 00
	L. M. Bloomfield.....	" " " " " "	1106	70 00
	C. B. Morrey.....	" " " " " "	1107	70 00
	J. A. Bownocker.....	" " " " " "	1108	70 00
	A. P. Winston.....	" " " " " "	1109	70 00
	C. L. Arnold.....	" " " " " "	1110	70 00
	C. A. Dye.....	" " " " " "	1111	70 00
	Ernest Bradford.....	" " " " " "	1112	60 00
	H. M. Ball.....	" " " " " "	1113	60 00
	T. K. Lewis.....	" " " " " "	1114	50 00
	C. A. Bruce.....	" " " " " "	1115	50 00
	F. L. Landacre.....	" " " " " "	1116	50 00
	K. D. Swartzel.....	Salary to date	1117	160 00
	W. L. Evans.....	$\frac{1}{10}$ salary November inst., 1895..	1118	30 00
	R. M. Hughes.....	" " " " " "	1119	30 00
	Harriet Townshend.....	" " " " " "	1120	30 00
	Frank Hass.....	" " " " " "	1121	30 00
	E. M. Wilcox.....	" " " " " "	1122	25 00
	G. H. Calkins.....	" " " " " "	1123	25 00
	F. E. Kester.....	" " " " " "	1124	25 00
	W. K. Moorehead.....	Salary November, 1895.....	1125	50 00
	Alexis Cope.....	" " " " " "	1126	187 50
	F. W. Prentiss.....	" " " " " "	1127	33 34
	W. C. McCracken.....	" " " " " "	1128	100 00
	Chas. Low.....	" " " " " "	1129	50 00
	Thos. Bonde.....	" " " " " "	1130	45 00
	James Kelly.....	" " " " " "	1131	41 67
	Wm. Whitestone.....	" " " " " "	1132	45 00
	F. B. Brewer.....	" " " " " "	1133	40 00
	Wash. Townsend.....	" " " " " "	1134	40 00
	J. H. Brown.....	" " " " " "	1135	40 00
	John Conrad.....	" " " " " "	1136	40 00
	F. W. North.....	" " " " " "	1137	40 00
	Jean Blackford.....	" " " " " "	1138	45 00
26	C. B. Hine.....	" " " " " "	1139	45 00
	Edith Cockins.....	" " " " " "	1140	40 00
	Wm. Standley.....	" " " " " "	1141	40 00
	Benj. LeBay.....	" " " " " "	1142	40 00
	R. O. Keiser.....	" " " " " "	1143	30 00
29	F. B. Pearson.....	19 lectures, latin department ..	1144	28 50
30	D. C. Huddleson.....	80 h. 5 m. as guide, @ 12 $\frac{1}{2}$..	1145	10 01
	Frank Huddleson.....	64 h. 10 m. " " " " " "	1146	8 02
	E. B. Kinhead.....	$\frac{1}{10}$ salary November inst., 1895..	1147	100 00
	L. A. Frayer.....	Serv. as janitor, November 1895	1148	20 00
Dec. 3	Col. Post-office.....	600-lc stamps	1149	6 00

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1895.				
Dec. 3	L. B. Wing	Exp. att'g meet'gs from Jan. 30, to Dec., 1895	1150	\$36 00
	F. W. Prentiss, Cashier..	Interest due on bonds December 1, 1895 as per coupons	1151	3,000 00
4	Edwin Kelton & Co.....	Lumber	1152	5 00
	Col. S. & H. Ry	Frt on crushed stone	1153	70 11
	Z. N. Barber	Blacksmithing and repairs	1154	3 10
	Cornelius Callaghan.....	189 hrs. labor, man and team..	1155	56 70
	J. W. Older.....	54 hours labor.....	1156	6 75
	Haines Huff	9 "	1157	1 13
	W. A. Hoff	104 "	1158	13 00
	J. H. King.....	62 "	1159	7 75
	R. Kuschke	81 "	1160	10 13
	H. W. Libbett	108 "	1161	13 50
	Karl Starbuck	16 "	1162	2 00
	Chas. Mooney.....	47 "	1163	5 88
	Dwight Rogers	94 "	1164	11 75
	F. S. Aten	23 "	1165	2 88
	A. J. Chantler.....	212 "	1166	26 50
	J. C. Britton	67 "	1167	8 38
	A. Barker	9 "	1168	1 12
	L. M. Johnston.....	50 "	1169	6 25
	Whitfield Duval.....	30 "	1170	3 75
	Thos. Gale.....	27 "	1171	3 38
	W. D. Marsh.....	20 "	1172	2 50
	Sam. McKnight.....	99 "	1173	12 38
	E. N. Beardsley	97 "	1174	12 13
	D. M. Griffith.....	144 "	1175	18 00
	H. Chantler	190 "	1176	23 75
	J. E. Adams	113 "	1177	14 38
	F. L. Carr	67 "	1178	8 38
	W. M. Britton	22 "	1179	2 20
	B. S. West.....	43 "	1180	5 38
	C. K. McClelland.....	5 "	1181	63
	V. H. Davis	28 "	1182	3 50
	C. B. Steward	19 "	1183	2 38
	Wm. Gilmore	74 "	1184	9 25
	Chas. H. Woodruff	Carpenter work	1185	47 64
	Edwin Kelton & Co	Lumber	1186	25 13
	Col. Supply Co.....	Fittings	1187	2 76
	J. R. Spurrier.....	Labor on elect. plant	1188	12 53
	The Tallmadge Hdw. Co.	Hardware	1189	10 44
	C. W. Baldwin	Frosting windows	1190	2 00
	Col. Edison Elec. L. Co..	Wire	1191	7 00
	The Tallmadge Hdw. Co.	Netting, solder, etc	1192	95
	F. C. Caldwell	Cash advanced on labor.....	1193	1 00
	Col. Edison Elec. L. Co..	Attachment plugs	1194	1 05
	B. D. Potts.....	Hardware	1195	7 75
	H. Braun, Sons & Co.....	Five gallons oil	1196	2 50
	Payne, McDonald & Co..	Rope, locks, etc	1197	4 24
	Columbus Bolt Works...	6½x25 square hds.....	1198	55
	Blackwood, Green & Co..	Hardware	1199	31 51
	The Tallmadge Hdw. Co.	"	1200	8 52
	John W. Reams.....	5 hours carpenter work	1201	3 05
	H. S. King	8 " digging post holes.....	1202	1 20
	Westinghouse Elec. and Mfg. Co	6 16-100 lamps	1203	1 50

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1895.				
Dec. 4	Adams Express Co.....	Freight.....	1204	\$5 85
	C., C., C. & St. L. R'y.....	" on instrument.....	1205	8 49
	The Fish Stone Co.....	Stone, etc.....	1206	12 00
	The Tracy-Wells Co.....	Brooms, mops, etc.....	1207	5 85
	Cen. Ohio Paper Co.....	Paper and twine.....	1208	66
	A. H. Smythe & Co.....	Binders, Ninn. letters, etc.....	1209	4 85
	Blackwood, Green & Co..	Rep. meter, etc.....	1210	6 50
	The Ruggles-Gale Co.....	Carmine ink, etc.....	1211	2 95
	Hockett Bros., Puntenney	Merchandise.....	1212	75
	Florence Dean Cope.....	Services as clerk.....	1213	34 50
	F. O. Schoedinger.....	One pan with lid.....	1214	1 00
	Kilbourne, Jones & Co..	Coal, fork, buckets.....	1215	3 75
	Alexis Cope.....	Bills paid.....	1216	12 00
	Krauss, Butler & Benham	Shades, rollers, matting, etc.....	1217	29 25
	J. B. Given.....	Labor as janitor.....	1218	12 83
	Chas. S. Hawley.....	Janitor work.....	1219	11 87
	Chas. F. Wheeler.....	Cleaning well.....	1220	27 00
	Arthur Chantler.....	2 days as fireman.....	1221	3 00
	Jas. Stainbrook.....	30 ".....	1222	45 00
	Morgan Envelope Co.....	Envelopes.....	1223	15 00
	Nitschke Bros.....	2,000 book tablets.....	1224	2 50
	J. R. Spurrier.....	Janitor work.....	1225	8 10
	Kelton & Converse.....	Lumber.....	1226	149 08
	The Pratt & Whitney Co.	Tools.....	1227	5 10
	Shilling Fdy. Co.....	Castings and drayage.....	1228	32 60
	Haydenville M. & M. Co.	Fire brick and clay.....	1229	2 10
	The Tallmadge Hdw. Co	Hardware.....	1230	10 13
	E. G. Greeley & Co.....	Glass jars.....	1231	94
	W. A. Knight.....	$\frac{1}{2}$ gallon oil tank.....	1232	4 25
	C. A. Grate.....	Work on cases.....	1233	16 95
	Edwin Kelton & Co.....	Lumber.....	1234	19 86
	Pickering Hdw. Co.....	Hardware, tools, etc.....	1235	53 36
	E. A. Kinsey & Co.....	Tools, etc.....	1236	49 43
	Cap. City Mach. Wks.....	Machinery.....	1237	32 41
	Bausch & Lomb Op. Co..	Optical parts.....	1238	1 59
	Payne, McDonald H. Co	Hardware.....	1239	8 97
	D. S. Kellicott.....	Bills paid.....	1240	3 30
	A. N. Kellogg Newap. Co.	Fifty sets plates.....	1241	70 00
	Hann & Adair.....	Bill heads, etc.....	1242	3 05
	Col. Daily Press-Post....	Advertising.....	1243	8 00
	Nitschke Bros.....	Printing.....	1244	59 50
	J. L. Trauger.....	Binding one book.....	1245	85
	Chas. Scribner's Sons....	One Greek book.....	1246	3 40
	Col. Gas Co.....	Gas used while repairing plant.	1247	79 19
	Penn. Fuel Co.....	Fuel.....	1248	58 93
	Stitt, Price & Co.....	Lime.....	1249	3 00
	Franklin Fuel Co.....	Fuel.....	1250	317 24
	F. C. Caldwell.....	Supplies purchased.....	1251	5 76
	F. S. Terry, Assignee.....	Shades, tape, etc.....	1252	3 38
	Cent. Elec. Co.....	Balance due on bill.....	1253	7 31
	The Tallmadge Hdw. Co	Hardware.....	1254	4 97
	John L. Trauger.....	One book binding.....	1255	3 00
	Nitschke Bros.....	Merchandise.....	1256	1 00
	Col. Supply Co.....	Fittings.....	1257	5 86
	Kilbourne, Jones & Co..	Copper oilers.....	1258	2 10
	Edwin Kelton & Co.....	Lumber.....	1259	3 90

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1895. Dec. 4	E. A. Hitchcock.....	Soap, towels, etc.....	1260	\$2 00
	G. S. Marshall.....	36 hours labor.....	1261	4 50
	Gertrude Kellicott.....	64 " " in library.....	1262	8 00
	Lillian Krumm.....	56 " " ".....	1263	7 00
	C. B. Guittard.....	50 " " ".....	1264	6 50
	Gustav E. Stechert.....	Books.....	1265	39 50
	Henry Goldsmith.....	Music and band instruments...	1266	66 55
	Mrs. D. A. Crowner.....	64 hours type setting.....	1267	8 00
	Hann & Adair.....	500 envelopes.....	1268	11 90
	A. T. Dempsey.....	Lecture on Jersey cattle.....	1269	10 00
	Kimball & Mathews.....	1 pr. 4x8 condensers.....	1270	6 00
	J. M. McCullough's Sons..	1 ton c. s. meal.....	1271	18 50
	Case Manufacturing Co..	½ yd. No. 5 bolting cloth.....	1272	1 75
	Payne, McDonald Hdw Co	Hardware.....	1273	37 94
6	W. S. Powell.....	Serv. as inst. of band, Sept., Oct. and Nov.....	1274	37 50
	O. R. Flynn.....	Serv. as ass't gen'l chemist to November 30, 1895.....	1275	33 00
7	E. F. Coddington.....	Serv. as janitor of observ. Jan. 2 to November 30, 1895.....	1276	10 00
9	Williams & Co.....	Copy of Ohio State Directory...	1277	5 00
10	Maurice Senft.....	1 drop light.....	1278	1 75
11	David F. Pugh.....	28 lect. law school, Sept. Oct. Nov.	1279	84 00
13	I. N. Abernathy.....	26 " " ".....	1280	78 00
14	F. C. Caldwell.....	⅙ salary—Dec. inst., 1895.....	1281	120 00
	A. L. Williston.....	" " ".....	1282	220 00
	Geo. W. Knight.....	7 lectures law school, Nov., 1895	1283	21 00
16	A. P. Winston.....	⅙ salary—Dec. inst., 1895.....	1284	70 00
	C. B. Morrey.....	" " ".....	1285	70 00
	E. A. Hitchcock.....	" " ".....	1286	120 00
	C. A. Bruce.....	" " ".....	1287	50 00
	C. L. Arnold.....	" " ".....	1288	70 00
17	J. S. Hine.....	" " ".....	1289	75 00
	G. W. McCoard.....	" " ".....	1290	160 00
	G. B. Kauffman.....	" " ".....	1291	200 00
18	Jean Blackford.....	Salary for December, 1895.....	1292	45 00
	Edith Cockins.....	" " ".....	1293	40 00
	C. N. Brown.....	⅙ salary—Dec. inst., 1895.....	1294	225 00
	F. A. Ray.....	" " ".....	1295	180 00
	D. S. White.....	" " ".....	1296	100 00
	D. S. Kellicott.....	" " ".....	1297	225 00
	E. A. Eggers.....	" " ".....	1298	225 00
	Clair A. Dye.....	" " ".....	1299	70 00
	Romeo O. Keiser.....	" " ".....	1300	30 00
	F. E. Kester.....	" " ".....	1301	25 00
19	Jas. H. Canfield.....	" " ".....	1302	600 00
	Thos. F. Hunt.....	" " ".....	1303	250 00
	Edw. Orton.....	" " ".....	1304	225 00
	W. H. Scott.....	" " ".....	1305	225 00
	Sam'l C. Derby.....	" " ".....	1306	225 00
	W. R. Lazenby.....	" " ".....	1307	225 00
	F. Haas.....	" " ".....	1308	30 00
	J. R. Smith.....	" " ".....	1309	225 00
	H. A. Weber.....	" " ".....	1310	225 00
	B. F. Thomas.....	" " ".....	1311	225 00
	Geo. W. Knight.....	" " ".....	1312	225 00
	R. D. Bohannan.....	" " ".....	1313	225 00

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1895.				
Dec. 19	A. M. Bleile	$\frac{1}{10}$ salary—Dec. inst., 1895	1314	\$225 00
	W. A. Kellerman	" "	1315	225 00
	B. L. Bowen	" "	1316	210 00
	A. C. Barrows	" "	1317	210 00
	J. V. Denney	" "	1318	210 00
	N. W. Lord	" "	1319	200 00
	W. F. Hunter	" "	1320	200 00
	Edw. Orton, Jr.	" "	1321	180 00
	J. N. Bradford	" "	1322	180 00
	W. McPherson	" "	1323	180 00
	S. A. Norton	" "	1324	120 00
	E. O. Randall	" "	1325	54 00
	H. C. Lord	" "	1326	120 00
	E. A. Kemmler	" "	1327	120 00
	J. A. Bownocker	" "	1328	70 00
	R. I. Fulton	" "	1329	120 00
	W. D. Gibbs	" "	1330	100 00
	C. W. Mesloh	" "	1331	100 00
	T. E. French	" "	1332	90 00
	F. C. Clarke	" "	1333	90 00
	O. B. Jones	" "	1334	80 00
	C. W. Mesloh	" "	1335	80 00
	W. A. Knight	" "	1336	80 00
	H. M. Ball	" "	1337	60 00
	F. J. Combs	" "	1338	80 00
	N. H. Brown	" "	1339	80 00
	J. R. Taylor	" "	1340	75 00
	L. M. Bloomfield	" "	1341	70 00
	Ernest Bradford	" "	1342	60 00
	T. K. Lewis	" "	1343	50 00
	F. L. Landacre	" "	1344	50 00
	K. D. Swartzel	" "	1345	80 00
	W. L. Evans	" "	1346	30 00
	R. M. Hughes	" "	1347	30 00
	Harriet Townsend	" "	1348	30 00
	E. M. Wilcox	" "	1349	25 00
	Geo. H. Calkins	" "	1350	25 00
1896.				
Jan. 24	F. W. Prentiss, Cash	Foreign Bill—Otto Harrossowitz	1351	7 75
1895.				
Dec. 19	W. K. Moorehead	Salary for December, 1895	1352	50 00
	Alexis Cope	" "	1353	187 50
	F. W. Prentiss	" "	1354	33 33
	W. C. McCracken	" "	1355	100 00
	Chas. Low	" "	1356	50 00
	Thos. Boude	" "	1357	45 05
	Jas. Kelley	" "	1358	41 87
	W. Whitestine	" "	1359	45 00
	F. B. Brewer	" "	1360	40 00
	Wash. Townsend	" "	1361	40 00
	John H. Brown	" "	1362	40 00
	John Conrad	" "	1363	40 00
	F. W. North	" "	1364	40 00
	C. B. Hine	" "	1365	45 00
	W. Standley	" "	1366	45 00
	Benj. Le Bay	" "	1367	45 00
	E. B. Kinkad	$\frac{1}{10}$ salary—Dec. inst., 1895	1368	100 00
21	Lee A. Frayer	Salary as janitor, Dec., 1895	1369	20 00

STATEMENT II--Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1895.				
Dec. 21	D. C. Huddleson ..	102½ hours as guide.....	1370	\$12 32
23	Paul Jones	16 law lect., Nov. and Dec., 1895.	1371	48 00
	Frank Huddleson	53 hours 15 minutes as guide...	1372	6 55
24	D. F. Pugh	9 law lectures, Dec., 1895.....	1373	27 00
30	O. W. Aldrich	72 " Nov. and Dec., @ \$3.00 per hour.....	1374	216 00
1896.				
Jan. 4	E. F. Coddington.....	Services, December, 1895.....	1375	20 00
6	F. B. Pearson	11 hours teaching	1376	16 50
11	Columbus Post-office....	600 2-c, 500 1-c, 100 4-c, 100 5-c stamps	1377	26 00
15	Florence D. Cope.....	Services as cl'k, Dec. 3 to Jan. 14	1378	51 00
	W. H. Hartsough, Jr.....	44 hrs. type w't'g & cl'k as. @ 12½	1379	5 50
	Mrs. D. A. Crowner.....	32 " @ 12½	1380	4 00
	Marion Peck	2 d. cl'n'g pump & boiler, @ \$1.50	1381	3 00
	J. Boude.....	5 d. " purifier, @ \$1.50.....	1382	7 50
	Jas. Stainbrook.....	Serv. as fireman, 31 d's @ \$1.50.	1383	46 50
	Jas. Goulding.....	" 3 " 1.50.	1384	4 50
	The Tracy-Wells Co	1 dozen 16 oz. mops.	1385	2 50
	The Tallmadge Hdw. Co.	56 feet metal strip	1386	1 40
	H. Cole.....	Thermometers	1387	14 24
	Library Bureau	1 oak case	1388	20 00
	A. H. Smythe.....	Type writer rep. and new rack..	1389	1 00
	Central Ohio Paper Co....	2,000 No. 7½ x 10½ envelopes....	1390	6 00
	T. E. French.....	Designs and working drawings for tab. observatory.....	1391	5 00
	The M. C. Lilley & Co ...	Repairing flag	1392	90
	Engelke & Bigelow	Freight and cartage.....	1393	132 05
15	J. R. Spurrier.....	Janitor work, 56 hrs. @ 15c....	1394	8 40
	J. C. Tyler.....	Repairing furnace.....	1395	1 00
	Geo. H. Schatzman	Moving piano	1396	6 50
	Chas. Bryson.....	Rep'g and varn'g 11 chairs	1397	10 00
	J. B. Given	Janitor services	1398	26 06
	E. E. Davis	54 hrs. elec. dep't @ 15c.....	1399	8 17
Feb. 25	C. W. Burket.....	100 2-c, 25 3-c stamps.....	1400	2 75
Jan. 15	The Ruggles-Gale Co	1 dozen file boxes.....	1401	5 00
	Nitschke Bros.....	Ink and mucilage	1402	90
	E. S. Aldrich.....	Services, Q. M. battalion	1403	5 00
	C. W. Hawley.....	Janitor services, 1 month	1404	13 50
	C. U. Telephone Co.....	Telephone services	1405	56 00
	J. H. Randall.....	4 hrs. carpenter work @ 27½....	1406	1 11
	Payne-McDonald H. Co..	Hardware	1407	2 38
	Col. Rubber & Belt'g Co..	4½ lbs. mill bands.....	1408	42
	W. D. Griffith	26 hours labor @ 12½c.....	1409	3 25
	A. J. Chantler.....	61 " 12½c.....	1410	7 63
	W. A. Hoff	25 " 12½c.....	1411	3 13
	H. Chantler.....	61 " 12½c.....	1412	7 63
	Gertrude Kellicott.....	56 " 12½c.....	1413	7 00
	G. S. Marshall	26 " 12½c.....	1414	3 25
	C. B. Guittard.....	26 " 12½c.....	1415	3 25
	Lillian Krumm.....	22 " 12½c.....	1416	2 75
	Taylor-Austin Co.....	Books	1417	251 01
	Library Bureau	Pens, erasers, etc	1418	15 95
	The Ruggles-Gale Co	Postal scale, shears, etc	1419	5 30
	The Outlook Co	Subscription to "Outlook".....	1420	1 28
	Olive B. Jones	Exp. att'g meet'g O. Lib. Ass'n..	1421	17 00
	Estes & Lauriat	Books	1422	7 80

STATEMENTS II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1896.				
Jan. 15	The Eng'g Magazine Co.	Copies of magazine	1423	\$0 75-
	F. C. Clarke.....	1 copy Rascher Armenpflege.....	1424	1 37
	The Fuller Book Co	Worcester dictionary	1425	5 00
	Nitschke Bros.....	Mdse	1426	26 49
	Chas. Scribner's Sons	Books	1427	1 28
	G. E. Stechert.....	"	1428	118 62
	Bausch & Lomb Op. Co	Prisms, micrometers, etc	1429	11 75
	A. H. Smythe.....	Books	1430	43 00
	B. D. Potts.....	Hardware and metal fittings....	1431	5 14
	H. Braun, Sons & Co	10 lbs. plumbago	1432	80
	Babcock & Wilcox Co	Work on boiler.....	1433	30 90
	Westinghouse Electric & Mfg. Co.....	9—floor insulators.....	1434	1 25
	Murphy Iron Works.....	20 pt. 33 x 45 grates	1435	29 00
	Cap. City Machine Wks..	Nickel heads and nuts	1436	75
	The Tallmadge Hdw. Co.	Pliers and key blanks	1437	1 05
	Columbus Supply Co.....	Pipe, steam hose, etc.	1438	20 46
	Columbus Gas Co.....	1 No. 69 mantle	1439	50
	Blackwood, Green & Co.	Stove, pipe, etc.....	1440	10 60
	J. H. Randall.....	Carp. work, 95 hours @ 27 $\frac{1}{2}$	1441	26 38
	J. J. Gheen	Rep. plastering in buildings....	1442	2 00
	A. Earl.....	Lumbr	1443	15 92
	C. H. Woodruff.....	103 hrs. carp. work @ 27 $\frac{1}{2}$	1444	28 60
	The Tallmadge Hdw. Co.	Hardware	1445	10 45
	J. R. Spurrier.....	Labor, electric plant.....	1446	17 70
	Champlin Ptg. Co	500 circulars.....	1447	2 60
	Columbus Dispatch	City item, 4 lines.....	1448	4 80
	W. L. Lemon	1 page ad. Great Awakening....	1449	25 00
	O. T. Carson	1 " " Ohio Ed. Monthly....	1450	15 00
	Franklin Ptg. Co.....	700 copies rules	1451	8 00
	Hann & Adair	500 postal cards printed.....	1452	6 00
	Nitschke Bros.....	Printing, etc	1453	167 77
	Central Magazine	Print'g and mailing magazines.	1454	40 00
	Strobridge Lith. Co	3,000 envelopes.....	1455	14 25
	Logan McCormick.....	Fram'g persp. town. mem. hall.	1456	5 00
	Spahr & Glenn.....	500 envelopes, 10,000 folders....	1457	26 25
	D. V. Burkett.....	Ad. in University Directory	1458	5 00
	Kauffman-Lattimer Co...	Chemicals, etc.....	1459	183 18
	Richards & Co.....	Chemicals	1460	2 37
	Mallinckrodt Chem. Wks.	"	1461	40 22
	Keuffel & Esser Co	Treg. cloth and prep. paper.....	1462	5 30
	Emil Greimer	Flasks, blast lamp, etc	1463	8 50
	Eastman Kodak Co.....	Mdse	1464	18 45
	Kimball & Mathews	Platine, paste, etc	1465	4 15
	G. W. Crandell.....	Tank and repairs.....	1466	14 00
	Watertown Therm. Co ...	$\frac{3}{4}$ doz. 14 in. chem. ther	1467	13 50
	H. Cole.....	10 yard roll 36-in. prep. paper..	1468	1 00
	Schoedinger, Fearn & Co.	Padlocks	1469	19 02
	Kaufman-Lattimer Co...	Chemical apparatus	1470	851 67
	The Tallmadge Hdw. Co.	Hardware and glass	1471	23 79
	Lamson Cutler Head Co..	1 — 10 $\frac{3}{4}$ in. solid heads, etc.....	1472	5 25
	Shilling Foundry Co.....	Castings	1473	2 57
	Blackwood, Green & Co.	Hardware	1474	2 52
	H. Judd.....	W'k on show case 91 h. @ 27 $\frac{1}{2}$ c.	1475	25 28
	E. A. Kinsey.....	Machine supplies, etc	1476	117 68
	A. C. Berlin & Co	5,000 time cards.....	1477	3 50
	Ben. D. Potts	Hardware and supplies	1478	6 19

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1896.				
Jan. 15	John T. Mack.....	Expenses meeting Jan., 1896 ...	1479	\$11 45
	Blackwood, Green & Co..	Hardware, etc.....	1480	4 20
	Columbus Supply Co.....	No. 10 $\frac{1}{2}$ tin torch	1481	60
	F. O. Schoedinger.....	Galvanized iron ware.....	1482	3 45
	A. J. Chantler.....	159 hours work @ 12 $\frac{1}{2}$ c.....	1483	19 85
	W. D. Griffith.....	44 " 12 $\frac{1}{2}$ c.....	1484	5 50
	E. N. Beardsley.....	42 " 12 $\frac{1}{2}$ c.....	1485	5 25
	W. A. Hoff.....	18 " 12 $\frac{1}{2}$ c.....	1486	2 25
	Chas. Mooney.....	7 " 12 $\frac{1}{2}$ c.....	1487	88
	W. M. Britton.....	53 " 12 $\frac{1}{2}$ c.....	1488	5 30
	H. Chantler.....	72 " 12 $\frac{1}{2}$ c.....	1489	9 00
	C. B. Stewart.....	9 " 12 $\frac{1}{2}$ c.....	1490	1 13
	J. C. Britton.....	37 " 12 $\frac{1}{2}$ c.....	1491	4 63
	Kilbourne & Jacobs Mfg Co	Replacing plough paint.....	1492	3 50
	Wm. Gilmore.....	86 hours work @ 12 $\frac{1}{2}$ c.....	1493	10 75
	Karl Starbuck.....	7 " 12 $\frac{1}{2}$ c.....	1494	88
	Chas. H. Woodruff.....	6 hours carp. work @ 27 $\frac{1}{2}$ c	1495	3 25
	Cap. City Mach. Wks.....	Locks, etc.....	1496	10 67
	McClelland & Co.....	1 ream T. W. paper.....	1497	1 50
	Cornish, Curtis & Greene	50 gal. Pasteurizing outfit.....	1498	50 00
	Vermont Farm Mach. Co.	Cheese vat., churn rack, etc.....	1499	23 75
	D. H. Burrell & Co.....	Dairy machinery.....	1500	70 25
	The Sharpless Co.....	Two 10 gal. Hinman cans	1501	5 00
	Engelke & Bigelow.....	Freight and cartage	1502	21 83
	The Tallmadge Hdw. Co.	Hardware	1503	2 18
	Columbus Supply Co.....	Fittings	1504	3 41
	John A. Brashear.....	Spectroscope ..	1505	260 00
	The H. Mithoff & Co.....	Files, etc.....	1506	80
	Elliott & Maclean.....	200 ft. $\frac{1}{2}$ -inch poplars.....	1507	5 00
	Weston Elec. Inst. Co.....	Voltmeter	1508	108 00
	Mrs. S. F. Harrison.....	1 stand, dictionary and holder..	1509	17 75
	Chas. H. Woodruff.....	11 h. carp. w'k, @ 27 $\frac{1}{2}$ c-1 set cast's	1510	3 65
	Heller & Brightly	Engineering instruments.....	1511	250 30
	Wm. Burdell.....	Harness and repairs.....	1512	9 90
	Walburn Swenson Co...	3 cast iron pig. troughs	1513	11 25
	C. H. Woodruff.....	29 hrs carp. work, @ 27 $\frac{1}{2}$ c.....	1514	8 05
	Edwin Kelton & Co.....	Lumber	1515	1 12
	J. H. Randall.....	39 hrs carp. work, @ 27 $\frac{1}{2}$ c.....	1516	10 83
	Cap. City Mach. Works...	Fittings	1517	4 43
	The Mt. Gilead Pottery..	Flowers potted.....	1518	16 03
	Freda Detmers.....	26 hours work, @ 15c.....	1519	3 90
	A. W. Livingston's Sons..	Seeds, etc.....	1520	22 50
	E. E. Bogue.....	123 hours work, @ 15.....	1521	18 45
	Bausch, Lomb Opt. Co..	Equipment, etc.....	1522	61 87
	Chas. Scribner's Sons.....	Dissection of cat	1523	3 46
	Stitt, Price & Co.....	30 measures lime.....	1524	3 00
	Franklin Fuel Co	Fuel	1525	1,106 80
	Penn. Fuel Co.....	"	1526	132 93
24	James H. Canfield.....	$\frac{1}{10}$ salary, Jan. inst., 1896.....	1527	600 00
	Thos. F. Hunt.....	"	1528	250 00
	Edw. Orton.....	"	1529	225 00
	W. H. Scott.....	"	1530	225 00
	Sam'l C. Derby.....	"	1531	225 00
	W. R. Lazenby.....	"	1532	225 00
	J. R. Smith.....	"	1533	225 00
	H. A. Weber.....	"	1534	225 00
	B. F. Thomas	"	1535	225 00

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1896. Jan. 24	G. W. Knight.....	$\frac{1}{10}$ salary, Jan. inst., 1896.....	1536	\$225 00
	R. D. Bobannan	" " " " " " " "	1537	225 00
	D. S. Kellicott.....	" " " " " " " "	1539	225 00
	C. N. Brown	" " " " " " " "	1539	225 00
	E. A. Eggers.....	" " " " " " " "	1540	225 00
	A. M. Bleile.....	" " " " " " " "	1541	225 00
	W. A. Kellerman.....	" " " " " " " "	1542	225 00
	A. L. Williston.....	" " " " " " " "	1543	220 00
	B. L. Bowen	" " " " " " " "	1544	210 00
	A. C. Barrows	" " " " " " " "	1545	210 00
	J. V. Denney	" " " " " " " "	1546	210 00
	N. W. Lord.....	" " " " " " " "	1547	200 00
	W. F. Hunter.....	" " " " " " " "	1548	200 00
	G. B. Kauffman.....	" " " " " " " "	1549	200 00
	E. Orton, Jr	" " " " " " " "	1550	180 00
	J. N. Bradford.....	" " " " " " " "	1551	180 00
	F. A. Ray	" " " " " " " "	1552	180 00
	W. McPherson.....	" " " " " " " "	1553	180 00
	G. W. McCoard.....	" " " " " " " "	1554	160 00
	S. A. Norton.....	" " " " " " " "	1555	120 00
	F. C. Caldwell.....	" " " " " " " "	1556	120 00
	H. C. Lord.....	" " " " " " " "	1557	120 00
	E. A. Kemmler.....	" " " " " " " "	1558	120 00
	R. I. Fulton.....	" " " " " " " "	1559	120 00
	E. A. Hitchcock.....	" " " " " " " "	1560	120 00
	W. D. Gibbs.....	" " " " " " " "	1561	100 00
	C. W. Mesloh.....	" " " " " " " "	1562	100 00
	D. S. White	" " " " " " " "	1563	100 00
	T. E. French.....	" " " " " " " "	1564	90 00
	F. C. Clarke.....	" " " " " " " "	1565	90 00
	Olive B. Jones.....	" " " " " " " "	1566	80 00
	C. W. Weick.....	" " " " " " " "	1567	80 00
	W. A. Knight.....	" " " " " " " "	1568	80 00
	F. J. Combs	" " " " " " " "	1569	80 00
	N. H. Brown.....	" " " " " " " "	1570	80 00
	J. R. Taylor	" " " " " " " "	1571	75 00
	J. S. Hine	" " " " " " " "	1572	75 00
	L. M. Bloomfield.....	" " " " " " " "	1573	70 00
	C. B. Morrey.....	" " " " " " " "	1574	70 00
	J. A. Bownocker	" " " " " " " "	1575	70 00
	A. P. Winston	" " " " " " " "	1576	70 00
	C. L. Arnold.....	" " " " " " " "	1577	70 00
	Clair A. Dye.....	" " " " " " " "	1578	70 00
	Ernest Bradford.....	" " " " " " " "	1579	60 00
	H. M. Ball.....	" " " " " " " "	1580	60 00
	T. K. Lewis.....	" " " " " " " "	1581	50 00
	C. A. Bruce.....	" " " " " " " "	1582	50 00
	F. L. Landacre.....	" " " " " " " "	1583	50 00
	K. D. Swartzel.....	" " " " " " " "	1584	80 00
	W. L. Evans.....	" " " " " " " "	1585	30 00
	R. M. Hughes.....	" " " " " " " "	1586	30 00
	Harriet Townsend.....	" " " " " " " "	1587	30 00
	F. Haas	" " " " " " " "	1588	30 00
	E. M. Wilcox.....	" " " " " " " "	1589	25 00
	G. H. Calkins.....	" " " " " " " "	1590	25 00
	F. E. Kester	" " " " " " " "	1591	25 00
	W. K. Morehead.....	Salary, January, 1896	1592	50 00

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1895.				
Jan. 24	Alexis Cope.....	Salary, January, 1896.....	1593	\$187 50
	F. W. Prentiss	"	1594	33 33
	W. C. McCracken.....	"	1595	100 00
	Chas. Low	"	1596	50 00
	T. Bonde	"	1597	45 00
	Jas. Kelley	"	1598	41 67
	W. Whitestone	"	1599	45 00
	F. B. Brewer.....	"	1600	40 00
	Wash. Townsend	"	1601	40 00
	J. H. Brown	"	1602	40 00
	J. Conrad.....	"	1603	40 00
	F. W. North	"	1604	40 00
	Jean Blackford.....	"	1605	50 00
	C. B. Hine	"	1606	45 00
	Edith Cockins.....	"	1607	40 00
	W. Standley	Salary, January, 1896 and balance October & November, '95.	1608	55 00
	Benj. LeBay	Salary, January, 1896	1609	45 00
	R. O. Keiser	"	1610	30 00
	L. A. Frayer	"	1611	20 00
25	H. J. Noyes.....	"	1612	166 66
	W. L. Graves.....	$\frac{1}{10}$ salary, January inst., 1896 ..	1613	50 00
	E. F. Coddington.....	Sal., jan., observatory, Jan., '96..	1614	20 00
	C. B. Guittard.....	38 hrs. as guide @ $12\frac{1}{2}$ c	1615	4 75
	D. C. Huddleson.....	73 "	1616	9 15
	Adams Express Co	1 Calorimeter sent C. O. D.	1617	187 15
29	Col. Post-office	1,000 3-c, 500 2-c stamps.....	1618	40 00
30	W. F. Lavery	Salary for January, 1896.....	1619	50 00
31	D. F. Pugh	10 law lectures, January 1896 ..	1620	30 00
Feb. 1	F. B. Pearson	18 hrs. as instructor in Latin....	1621	27 00
	Col. Post-office	1,000 3-c, 1,000 4-c, 100 5-c, 500 2-c, 200 1-c, 10 S. D. stamps	1622	52 00
	E. B. Kinkead.....	$\frac{1}{10}$ salary, January inst., 1896 ..	1623	100 00
3	Col. post-office.....	1,000 stamped envelopes.....	1624	22 16
5	The Tracy-Wells Co	1 doz. butter tubs	1625	3 25
Jan. 5	C. S. Baker & Co	1,000 Farrington tablets.....	1626	2 00
	N. F. Pheneger.....	21,955 lbs. milk	1627	265 71
Feb. 5	Z. L. White	25 yards muslin @ 9c.....	1628	1 35
	Cherrington P. & Eng. Co.	25 checks	1629	50
	The Tallmadge Hdw. Co.	Small hardware	1630	3 70
	Smith & Moore	One-half dozen butter tubs	1631	5 00
	J. H. Randall.....	42 $\frac{1}{2}$ hrs. carpenter work @ $27\frac{1}{2}$ c.	1632	11 81
	C. H. Woodruff.....	28 $\frac{1}{2}$ "	1633	7 92
	Monypeny-Hammond Co	224 lbs. imported salt	1634	2 00
	Engelke & Bigelow.....	Freight and cartage	1635	1 97
	C. H. Woodruff	8 $\frac{1}{2}$ hrs. carpenter work @ $27\frac{1}{2}$ c	1636	2 36
	Engelke & Bigelow.....	Freight and cartage	1637	5 90
	J. H. Randall.....	26 hrs. carpenter work @ $27\frac{1}{2}$ c.	1638	10 00
	Hann & Adair	2,000 students' score cards.....	1639	7 20
	Jas. Penn	3,910 lbs. oats @ $24\frac{1}{2}$ per bushel	1640	29 90
	Clev. Linseed Oil Co.....	4,000 lbs. linseed oil meal @ \$18.50 per ton	1641	33 40
	Blackwood, Green & Co ..	Hardware and repairs	1642	23 77
	R. L. Seeds	1,640 lbs gluten meal @ \$15 p. ton	1643	12 32
	H. Braun, Sons & Co.....	2 pairs No. 17 tips	1644	50
	Col. Supply Co.....	Hardware	1645	2 98
	E. G. Willyoung	Elect. sup. and platinum.....	1646	53 63

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1895.				
Feb. 5	West. U. Telegraph Co...	Time service, six months.....	1647	\$7 50
	Dunn, Taft & Co	Cover for instruments.....	1648	2 96
	Blackwood, Green & Co..	Tin and labor	1649	3 65
	Edwin Kelton & Co.....	Lumber	1650	72
	Western Elec. Co.....	Elec. supplies.....	1651	10 50
	Col. Gas Co	4 No. 20 lights complete @ \$2.50	1652	10 00
	The Tallmadge Hdw. Co.	Hardware	1653	2 23
	C. H. Woodruff.....	3½ hrs. carpenter work @ 27½ c	1654	2 51
	J. H. Randall.....	5 " "	1655	1 38
	Elec. Appliance Co.....	Elec. supplies	1656	1 59
	The Tallmadge Hdw. Co.	Hardware	1657	1 25
	McClelland & Co	Bands and sten. pencils	1658	1 00
	J. R. Spurrier.....	Labor, self and others.....	1659	14 05
	Adams Express Co.....	Charges expressage	1660	1 45
	F. D. Cope.....	Services clerk, 18 days @ \$1.50	1661	27 00
	Chas. H. Clark.....	Ordinance stores lost.....	1662	37 41
	Alexis Cope.....	Cash paid for express, etc.....	1663	36 42
	J. H. Washburn.....	Member As. Am. Agr. coll. & Ex. Station	1664	10 00
	McClelland & Co	Pencils, point protectors, etc....	1665	2 37
	G. W. Knight.....	Expressage paid	1666	80
	C. H. Woodruff.....	Janitor work.....	1667	13 50
	Smith & Conklin.....	Furniture.....	1668	84 17
	Lauterbach & Eilber.....	Premium ins. policy	1669	51 55
	Bryson, Brubacher & Co..	"	1670	85 44
	Henry Warren	Ins. in Penn. Fire Ins. Co.....	1671	34 37
	Cherrington P. & Eng. Co	Stamps	1672	3 25
	Standard Oil Co.....	Ren. Eng. 509 @ 19..	1673	9 67
	Engelke & Bigelow.....	Freight and cartage.....	1674	10 13
	C. H. Woodruff.....	85 hrs. carpenter work @ 27½ c	1675	23 60
	Edwin Kelton & Co.....	Lumber	1676	21 25
	The Tallmadge Hdw. Co.	Hardware	1677	8 08
	J. H. Randall.....	40 hrs. work @ 27½.....	1678	11 11
	Marion Peck.....	3½ days work @ \$1.50.....	1679	5 70
	John Boude.....	4 days work @ \$1.50	1680	6 00
	Arthur Chantler.....	5½ days work @ \$1.50.....	1681	8 55
	Elec. Appliance Co.....	Elec. supplies	1682	32 58
	Beacon Lamp Co	10 Beacon lamps ..	1683	2 15
	Z. N. Barber	Making and splicing coke hook.	1684	1 25
	J. R. Spurrier.....	Work by self and others.....	1685	3 04
	B. D. Potts.....	Hardware	1686	17 82
	Blackwood, Green & Co.	" and repairs	1687	2 80
	E. C. Kissinger.....	Lime, cement, etc.....	1688	4 05
	Borger Bros. & Co	Material & labor, rep. boilers, etc	1689	15 92
	C. E. Nicholas	Elec. supplies	1690	65
	Col. Sewer Pipe Co ..	Pipe, etc.....	1691	19 81
	H. E. Brown & Sons	Repairs and labor	1692	16 95
	Neski & Huffman.....	Plumbing repairs.....	1693	60 22
	Stitt, Price & Co.....	Lime, cement, etc	1694	33 10
	Penn. Fuel Co.....	Fuel	1695	183 24
	Franklin Fuel Co	"	1696	22 36
	The Tracy-Wells Co	Tickets, day book, etc.....	1697	2 16
	Emil Greiner	Centrifugal machine, etc	1698	54 91
	Baker & Co	Platinum wire	1699	7 34
	Mallenkrodt Chem. Wks	Chemicals	1700	11 28
	Kimball & Mathews	1 doz. 14x17 Monogram papers.	1701	1 50
	Kaufman-Lattimer Co..	Chemicals	1792	109 63

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1896.				
Feb. 5	Eimer & Amend.....	Thermometers.....	1703	\$7 65
	McClelland & Co.....	Thumb tacks and paper cutter..	1704	90
	J. H. Randall.....	28½ hours work @ 27½ c.....	1705	7 92
	W. S. Wiggins.....	Stamps.....	1706	4 20
	The Electrical Engineer.	2 copies E. E.....	1707	1 00
	Engelke & Bigelow.....	Freight and cartage.....	1708	5 01
	C. H. Woodruff.....	25 hours work @ 27½ c.....	1709	6 94
	Library Bureau.....	Library supplies.....	1710	7 00
	A. H. Smythe.....	Books.....	1711	2 78
	The Taylor-Austin Co ..	".....	1712	93 84
	Nitechke Bros.....	Files for cards.....	1713	1 60
	J. L. Trauger.....	Binding books.....	1714	95 43
	Edwin Kelton & Co.....	Lumber.....	1715	13 42
	G. E. Stechert.....	Books.....	1716	202 76
	A. N. Kellogg News. Co..	2 sets plates.....	1717	70 00
	Nitechke Bros.....	Printing.....	1718	16 20
	Agr. Student Pub. Co....	5,000 copies A. S., 3 months.....	1719	82 50
	O. S. Journal Co.....	10 weekly, 10 Sunday journals..	1720	1 00
	Students' Hand Book....	Ad. in hand book.....	1721	5 00
	United Mine W'k's Jour.	Advertising.....	1722	12 00
	Rand McNally & Co.....	Richter's Roman Forum.....	1723	3 70
	G. E. Stechert.....	German book.....	1724	3 60
	W. K. Moorehead.....	Expressage paid, etc.....	1725	5 35
	Mrs. D. A. Crowner.....	48 hours stenographing @ 12½c.	1726	6 00
	Columbus Gas Co.....	4 No. 31 lights @ \$2.50.....	1727	10 00
	W. S. Powell.....	Serv. instructor band, 2 mo.....	1728	25 00
	Engelke & Bigelow.....	Freight and cartage.....	1729	3 60
	E. E. Bogue.....	53½ hrs. work on coll. @ \$1.50..	1730	8 80
	D. S. Kellicott.....	Laboratory supplies.....	1731	7 50
	Nitechke Bros.....	Paste and binders' cloth.....	1732	1 70
	Bausch Lomb Opt. Co..	Instruments.....	1733	10 69
	G. M. Marshall.....	24 hrs. work in lib. @ 12½c.....	1734	3 00
	Gertrude Kellicott.....	76 " " 12½c.....	1735	9 50
	Earl E. Enos.....	Ass't in general chemistry.....	1736	18 00
	Jas. Stainbrook.....	31 days work @ \$1.50.....	1737	46 50
	Columbus Post-office....	1,000 3-c stamps.....	1738	30 00
	Shilling Foundry Co.....	140 lbs. castings.....	1739	4 70
	Cap. City Mach. Works..	Brass castings.....	1740	45
	The Taylor-Austin Co ..	Thompson's poems.....	1741	2 70
	W. F. Hunter.....	Cler. ass't act'g Sec. law school..	1742	35 80
	Hann & Adair.....	150 schedule recitations.....	1743	3 00
	Spahr & Glenn.....	50 letters to trustees.....	1744	8 00
	F. O. Schoedinger.....	Repairing bucket.....	1745	30
	Engelke & Bigelow.....	Freight and cartage.....	1746	5 48
	A. H. Smythe.....	Books.....	1747	1 30
	McClelland & Co.....	".....	1748	4 80
	Herman Haerlein.....	Services landscape gardener.....	1749	327 70
	A. J. Chantler.....	44 hours labor @ 12½c.....	1750	5 50
	H. Chantler.....	223 hours work @ 12½c.....	1751	27 91
	Col. S. & H. R. R. Co....	Freight on limestone.....	1752	9 52
7	Columbus Post-office....	500 4-c, 400 3-c stamps.....	1753	32 00
	G. W. Knight.....	11 law lectures, Dec. and Jan...	1754	33 00
8	I. N. Abernathy.....	11 hours lectures law school.....	1755	33 00
10	D. M. Massie.....	Expenses as trustee from Oct. 1 to date.....	1756	19 60
13	T. J. Godfrey.....	Exp. meeting, Feb. 12, 1896.....	1757	12 40

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1896.				
Feb. 13	The Laning Ptg. Co	Balance due on account print-		
		ing extra catalogues	1758	\$60 00
14	James E. Keeler.....	Exp. in exam'g obser. equip't...	1759	20 20
	E. O. Randall.....	18 lectures law school @ \$3	1760	54 00
18	O. W. Aldrich.....	34 law lectures	1761	102 00
19	Columbus Post-office.....	500 3-c, 500 2-c postage stamps..	1762	25 00
25	Paul Jones	6 law lectures.....	1763	18 00
29	Jas. H. Canfield.....	$\frac{1}{2}$ salary, February inst., '96.....	1764	600 00
	T. F. Hunt	" "	1765	250 00
	Edw. Orton	" "	1766	225 00
	W. H. Scott.....	" "	1767	225 00
	Samuel C. Derby	" "	1768	225 00
	W. R. Lazenby.....	" "	1769	225 00
	J. R. Smith	" "	1770	225 00
	H. A. Weber.....	" "	1771	225 00
	B. F. Thomas	" "	1772	225 00
	G. W. Knight.....	" "	1773	225 00
	R. D. Bohannon.....	" "	1774	225 00
	D. S. Kellicott	" "	1775	225 00
	C. Newton Brown.....	" "	1776	225 00
	E. A. Eggers	" "	1777	225 00
	A. M. Bleile	" "	1778	225 00
	W. A. Kellerman.....	" "	1779	225 00
	A. L. Williston.....	" "	1780	220 00
	B. L. Bowen	" "	1781	210 00
	A. C. Barrows.....	" "	1782	210 00
	J. V. Denney.....	" "	1783	210 00
	N. W. Lord.....	" "	1784	200 00
	W. F. Hunter.....	" "	1785	200 00
	Geo. B. Kaufman	" "	1786	200 00
	Edward Orton, Jr	" "	1787	180 00
	J. N. Bradford	" "	1788	180 00
	F. A. Ray	" "	1789	180 00
	W. McPherson.....	" "	1790	180 00
	Geo. W. McCoard	" "	1791	160 00
	S. A. Norton	" "	1792	120 00
	F. C. Caldwell.....	" "	1793	120 00
	H. C. Lord.....	" "	1794	120 00
	E. A. Kemmler.....	" "	1795	120 00
	R. I. Fulton	" "	1796	120 00
	E. A. Hitchcock.....	" "	1797	120 00
	W. D. Gibbs	" "	1798	100 00
	C. W. Mesloh	" "	1799	100 00
	D. S. White.....	" "	1800	100 00
	T. E. French.....	" "	1801	90 00
	F. C. Clarke.....	" "	1802	90 00
	O. B. Jones	" "	1803	80 00
	C. W. Weick.....	" "	1804	80 00
	W. A. Knight.....	" "	1805	80 00
	F. J. Combs.....	" "	1806	80 00
	N. H. Brown.....	" "	1807	80 00
	J. R. Taylor	" "	1808	75 00
	J. S. Hine	" "	1809	75 00
	L. M. Bloomfield	" "	1810	70 00
	C. B. Morrey.....	" "	1811	70 00
	J. A. Bownocker	" "	1812	70 00
	A. P. Winston	" "	1813	70 00

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1896.				
Feb. 29	C. L. Arnold.....	$\frac{1}{8}$ salary, February inst., 1896..	1814	\$70 00
	C. A. Dye.....	" " " " " "	1815	70 00
	Ernest Bradford.....	" " " " " "	1816	60 00
	H. M. Ball.....	" " " " " "	1817	60 00
	T. K. Lewis.....	" " " " " "	1818	50 00
	C. A. Bruce.....	" " " " " "	1819	50 00
	F. L. Landacre.....	" " " " " "	1820	50 00
	K. D. Swartzel.....	" " " " " "	1821	80 00
	W. L. Evans.....	" " " " " "	1822	30 00
	R. M. Hughes.....	" " " " " "	1823	30 00
	Harriet Townsend.....	" " " " " "	1824	30 00
	F. Haas.....	" " " " " "	1825	30 00
	E. M. Wilcox.....	" " " " " "	1826	25 00
	G. H. Calkins.....	" " " " " "	1827	25 00
	F. E. Kester.....	" " " " " "	1828	25 00
	W. K. Moorehead.....	Salary for February, 1896.....	1829	50 00
	Harriet Townsend.....	" " " " " "	1830	20 00
	Alexis Cope.....	" " " " " "	1831	187 50
	F. W. Prentiss.....	" " " " " "	1832	33 34
	W. C. McCracken.....	" " " " " "	1833	100 00
	Chas. Low.....	" " " " " "	1834	50 00
	T. Boude.....	" " " " " "	1835	45 00
	Wm. Whitestine.....	" " " " " "	1836	45 00
	Jas. Kelley.....	" " " " " "	1837	41 67
	F. B. Brewer.....	" " " " " "	1838	40 00
	Wash Townsend.....	" " " " " "	1839	40 00
	J. H. Brown.....	" " " " " "	1840	40 00
	J. Conrad.....	" " " " " "	1841	40 00
	F. W. North.....	" " " " " "	1842	40 00
	Jean Blackford.....	" " " " " "	1843	50 00
	C. B. Hine.....	" " " " " "	1844	45 00
	Edith Cockins.....	" " " " " "	1845	40 00
	Wm. Standley.....	" " " " " "	1846	45 00
	B. Le Bay.....	" " " " " "	1847	45 00
	R. O. Keiser.....	$\frac{1}{8}$ salary, February inst., 1896..	1848	30 00
	Lee A. Frayer.....	Salary for February, 1896.....	1849	20 00
	E. B. Kinkead.....	Salary Feb., 1896, Sec. law sch...	1850	100 00
	W. L. Graves.....	$\frac{1}{8}$ salary, February inst., 1896..	1851	50 00
	C. K. Wilson.....	Salary for February, 1896.....	1852	19 20
	F. B. Pearson.....	30 hrs. teaching, February, 1896	1853	30 00
	D. F. Pugh.....	12 law lectures @ \$2.50.....	1854	30 00
	E. F. Coddington.....	Salary for February, 1896.....	1855	20 00
	H. J. Noyes.....	" " " " " "	1856	166 66
	W. F. Lavery.....	" " " " " "	1857	50 00
Mar. 4	Mitchell Adv. Co.....	Depot time card.....	1868	35
	Standard Oil Co.....	Oil.....	1859	27 09
	Col. Transfer Co.....	Carriage service.....	1860	10 00
	C. U. Telephone Co.....	Tolls.....	1861	60
	F. Charles.....	Cartage.....	1862	2 75
	Blackwood, Green & Co.....	Galv. iron buckets.....	1863	2 05
	Col. Supply Co.....	50-foot hose.....	1864	5 25
	Monypenny-Hammond Co	Groceries, etc.....	1865	16 43
	The Tallmadge Hdw. Co	3 scoop shovels.....	1866	3 00
	C. O. Paper Co.....	2 lbs. 4½ hemp.....	1867	20
3	I. N. Abernathy.....	8 hrs. lectures law school.....	1858	20 00
4	Z. L. White & Co.....	Merchandise.....	1869	5 75
	J. R. Seymour.....	41 hrs. as guide @ 12½c.....	1870	5 13

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1896.				
Mar. 4	F. Huddleson	20 hrs. as guide @ 12c ..	1871	\$2 50
	C. B. Guittard	131 " 12c ..	1872	16 38
	Miller Blose	5 " 12c ..	1873	63
	D. C. Huddleson	254 " 12c ..		
	F. D. Cope	Services as clerk, February 3 to	1874	22 62
		March 3, 1896	1875	36 00
	J. B. Given	Janitor serv. Jan. & Feb., 1896.	1876	15 22
	C. S. Hawley	Janitor services, February, 1896	1877	13 50
	Jas. Goulding	Serv. fireman, 1 d. @ \$1.50 ..	1878	1 50
	Arthur Chantler	" 12 " \$1.50 ..	1879	18 00
	Jas. Stainbrook	" 29 " \$1.50 ..	1880	43 50
	Jones & Loveberry	7 hd. dissecting horses	1881	21 00
	H. Braun, Sons & Co.	Electric battery, etc	1882	9 10
	B. D. Potts	Check valve, etc	1883	73
	Standard Oil Co.	Gasoline	1884	7 28
	Hall, Carlisle & Bingham	6 bbls. plaster	1885	12 60
	Hann & Adair	Labels, etc	1886	4 00
	Orr, Pearce & Co.	6½ doz. jars	1887	30 82
	The Tallmadge Hdw. Co	Hardware	1888	12 38
	C. C. Oare	Repairs, 2 bbls. mortar, etc ..	1889	7 00
	C. H. Woodruff	54 hrs. carpenter work @ 27½ c.	1890	15 00
	John Boude	2½ d. work @ \$1.50 ..	1891	3 75
	Marion Peck	"	1892	3 75
	E. Kelton & Co	Lumber	1893	1 23
	J. J. Gheen	Repairing ceiling, etc	1894	13 70
	Col. Sewer Pipe Co	1 bbl. German cement	1895	3 50
	B. D. Potts	Rainbow packing	1896	6 05
	Neski & Huffman	Plumbing	1897	57 61
	C. E. Nicholas	Electrical supplies	1898	1 45
	E. C. Kissinger	1 yd. sand	1899	1 50
	Edwin Kelton & Co.	Lumber	1900	102 24
	C. H. Woodruff	3 hrs. carpenter work @ 27½ c.	1901	83
	J. H. Randall	90½ " " 27½ c.	1902	25 14
	Cap. City Mach. Wks.	Rep. machinery	1903	14 41
	C. H. Woodruff	44 hours work @ 27½ & \$6.25		
		bills paid	1904	28 47
	J. R. Spurrier	Labor by self and others	1905	46 87
	Mrs. D. A. Crowner	64 hrs. sten @ 12½ c ..	1906	8 00
	Jacob Weisheimer	Grind'g Nov. 15, 95 to Feb. 21 '96	1907	21 19
	Maud Jeffrey	160 hrs. work @ 12½ c ..	1908	20 00
	C. K. McClelland	43 " 12½ c ..	1909	5 25
	Gertrude Kellicott	88 " 12½ c ..	1910	11 00
	H. Chantler	95 " 12½ c ..	1911	11 88
	Kerson Nurian	13 " 12½ c ..	1912	1 63
	Abijah R. Wilson	38 " 12½ c ..	1913	4 75
	B. B. Herrick	2 lec. dept. Agr.	1914	15 00
	H. J. Booth	1 "	1915	10 00
	Webb Station'y & Ptg Co	3 book orders	1916	16 00
	The Ohio State Journal..	Advertising	1917	12 30
	The Press-Post Ptg. Co...	"	1918	4 50
	Rep. Newspaper Co.	Ptg. programm and env	1919	4 50
	Agr. Student Union	300 1-c, 300 2-c st'mps and env.	1920	9 30
	F. P. Stump	250 1-c, 50 2-c stamps express		
		package	1921	4 05
	Nitschke Bros	Printing, etc	1922	61 95
	Franklin Printing Co.	Printing circulars, etc	1923	20 85
	The Tallmadge Hdw. Co.	Hardware	1924	1 83

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1896.				
Mar. 4	Kilbourne, Jones & Co..	Bolts, screws, etc	1925	\$1 95
	Nitschke Bros.....	Postals and depot cards.....	1926	1 85
	Columbus Brass Co.....	6 reducers.....	1927	48
	E. A. Hitchcock.....	Dep't supplies purchased.....	1928	4 00
	Columbus Supply Co.....	Mechanical supplies.....	1929	4 67
	Stitt, Price & Co.....	60 meas. lime	1930	6 00
	Penn. Fuel Co.....	Fuel	1931	48 66
	Franklin Fuel Co.....	"	1932	689 83
	The H. Mithoff Co.....	Wire and other supplies.....	1933	4 64
	West. Union Teleg. Co....	Syn. time service	1934	95
	Goodrich Hard Rubb. Co.	Rubber merchandise.....	1935	2 22
	The Tallmadge Hdw. Co.	Hardware	1936	1 11
	Andrew Earl.....	6 poplar doors.....	1937	4 50
	Edwin Kelton & Co.....	Lumber	1938	13 26
	C. H. Woodruff.....	45 hours carp. work, @ 27 $\frac{1}{2}$ c.....	1939	12 64
	J. H. Randall.....	48 $\frac{1}{2}$ " " 27 $\frac{1}{2}$ c.....	1940	13 47
	Newark L'ie & Cem. Mfg. Co	2 bbls. pottery plaster.....	1941	2 90
	P. Hayden Sad. Hdw. Co..	Iron merchandise.....	1942	8 65
	S. Geysbeek.....	Labor, relief map, etc	1943	53 00
	Mallinckrodt Chem. Wks	Chemicals	1944	70 36
	Rochester Opt. Co.....	Photo supplies, etc	1945	68 04
	Kauffman-Latimer Co....	Chemicals	1946	99 87
	Payne, McDonald Hdw Co	Paint, etc	1947	1 25
	G. E. Stechert.....	Books	1948	6 90
	W. F. Hunter.....	Cash paid transp. reports.....	1949	1 50
	Freda Detmers.....	32 hours copying labels, @ 15c.	1950	4 80
	G. E. Stechert.....	Books	1951	1 94
	H. Braun, Sons & Co.....	Vials and corks.....	1952	2 09
	A. G. Abbott.....	45 hours work, @ 15c.....	1953	6 75
	E. E. Bogue.....	41 " " 15c.....	1954	6 15
	H. Judd.....	84 " " 27 $\frac{1}{2}$ c.....	1955	23 33
	N. F. Pheneger.....	30,380 lbs. milk	1956	311 16
	Creamery P'k'ge Mfg Co..	Dairy supplies.....	1957	15 32
	Crystal Ice Mfg. & C.S.Co.	6,600 lbs. ice.....	1958	9 90
	C. H. Woodruff.....	7 $\frac{1}{2}$ hours carp. work, @ 27 $\frac{1}{2}$ c.....	1959	2 08
	Cent. Ohio Paper Co.....	Paper	1960	3 53
	Edwin Kelton & Co.....	Lumber	1961	14 03
	The Tallmadge Hdw Co..	Hardware	1962	1 40
	T. J. Godfrey.....	Exp. meeting, March 3, 1896...	1963	11 85
	W. F. Whitney.....	Costs, case Va. Military Lands..	1964	34 83
7	C. W. Burkett.....	100 1-c, 100 2-c postage stamps..	1965	3 00
	Paul Jones.....	8 lectures, @ \$2.50.....	1966	20 00
12	E. O. Randall.....	18 " law school.....	1967	45 00
23	Olive B. Jones.....	$\frac{1}{2}$ salary, March inst., 1896.....	1968	80 00
	Alexis Cope.....	Postage, 100 5-c, 100 3-c, 500 2-c, 300 1-c, \$21 cash p'd ex.ch., \$15	1969	36 00
28	James H. Canfield.....	$\frac{1}{2}$ salary, March inst., 1896....	1970	600 00
25	J. V. Denney.....	" "	1971	210 00
28	T. F. Hunt.....	" "	1972	250 00
	Edw. Orton.....	" "	1973	225 00
	W. H. Scott.....	" "	1974	225 00
	S. C. Derby.....	" "	1975	225 00
	W. R. Lazenby.....	" "	1976	225 00
	J. R. Smith.....	" "	1977	225 00
	H. A. Weber.....	" "	1978	225 00
	B. F. Thomas.....	" "	1979	225 00
	G. W. Knight.....	" "	1980	225 00

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1896. Mar. 28	R. D. Bohannon.....	$\frac{1}{10}$ salary, March inst., 1896.....	1981	\$225 00
	D. S. Kellicott	" " " " " " " " " " " "	1982	225 00
	C. N. Brown.....	" " " " " " " " " " " "	1983	225 00
	E. A. Eggers.....	" " " " " " " " " " " "	1984	225 00
	A. M. Beile.....	" " " " " " " " " " " "	1985	225 00
	W. A. Kellerman.....	" " " " " " " " " " " "	1986	225 00
	A. L. Williston	" " " " " " " " " " " "	1987	220 00
	B. L. Bowen.....	" " " " " " " " " " " "	1988	210 00
	A. C. Barrows	" " " " " " " " " " " "	1989	210 00
	N. W. Lord.....	" " " " " " " " " " " "	1990	200 00
	W. F. Hunter.....	" " " " " " " " " " " "	1991	200 00
	G. B. Kauffman.....	" " " " " " " " " " " "	1992	200 00
	Edw. Orton, Jr.....	" " " " " " " " " " " "	1993	180 00
	J. N. Bradford.....	" " " " " " " " " " " "	1994	180 00
	F. A. Ray	" " " " " " " " " " " "	1995	180 00
	W. McPherson.....	" " " " " " " " " " " "	1996	180 00
	G. W. McCoard	" " " " " " " " " " " "	1997	160 00
	S. A. Norton.....	" " " " " " " " " " " "	1998	120 00
	F. C. Caldwell.....	" " " " " " " " " " " "	1999	120 00
	Henry C. Lord.....	" " " " " " " " " " " "	2000	120 00
	E. A. Kemmler.....	" " " " " " " " " " " "	2001	120 00
	R. I. Fulton	" " " " " " " " " " " "	2002	120 00
	E. A. Hitchcock	" " " " " " " " " " " "	2003	120 00
	W. D. Gibbs	" " " " " " " " " " " "	2004	100 00
	C. W. Mesloh	" " " " " " " " " " " "	2005	100 00
	D. S. White.....	" " " " " " " " " " " "	2006	100 00
	T. E. French.....	" " " " " " " " " " " "	2007	90 00
	F. C. Clarke.....	" " " " " " " " " " " "	2008	90 00
	C. W. Weick.....	" " " " " " " " " " " "	2009	80 00
	W. A. Knight.....	" " " " " " " " " " " "	2010	80 00
	F. J. Combs	" " " " " " " " " " " "	2011	80 00
	N. H. Brown.....	" " " " " " " " " " " "	2012	80 00
	J. R. Taylor	" " " " " " " " " " " "	2013	75 00
	J. S. Hine	" " " " " " " " " " " "	2014	75 00
	L. M. Bloomfield.....	" " " " " " " " " " " "	2015	70 00
	C. B. Morrey.....	" " " " " " " " " " " "	2016	70 00
	J. A. Bownocker.....	" " " " " " " " " " " "	2017	70 00
	A. P. Winston.....	" " " " " " " " " " " "	2018	70 00
	C. L. Arnold.....	" " " " " " " " " " " "	2019	70 00
	C. A. Dye.....	" " " " " " " " " " " "	2020	70 00
	Ernest Bradford.....	" " " " " " " " " " " "	2021	60 00
	H. M. Ball.....	" " " " " " " " " " " "	2022	60 00
	T. K. Lewis.....	" " " " " " " " " " " "	2023	50 00
	C. A. Bruce.....	" " " " " " " " " " " "	2024	50 00
	F. L. Landacre.....	" " " " " " " " " " " "	2025	50 00
	H. J. Noyes	" " " " " " " " " " " "	2026	166 66
25	W. F. Lavery.....	" " " " " " " " " " " "	2027	50 00
28	K. D. Swartzel	" " " " " " " " " " " "	2028	80 00
	W. L. Evans.....	" " " " " " " " " " " "	2029	30 00
	R. M. Hughes.....	" " " " " " " " " " " "	2030	30 00
	Harriet Townsend	" " " " " " " " " " " "	2031	30 00
	Frank Haas.....	" " " " " " " " " " " "	2032	30 00
	E. M. Wilcox.....	" " " " " " " " " " " "	2033	25 00
	G. H. Calkins.....	" " " " " " " " " " " "	2034	25 00
	F. E. Kester.....	" " " " " " " " " " " "	2035	25 00
	W. K. Morehead	Salary, March, 1896	2036	50 00
	Alexis Cope.....	" " " " " " " " " " " "	2037	187 50

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1896.				
Mar. 28	F. W. Prentiss	Salary, March, 1896.....	2038	\$33 33
	W. C. McCracken.....	" "	2039	100 00
	Chas. Low	" "	2040	50 00
	Thos. Boude	" "	2041	45 00
	Jas. Kelley	" "	2042	41 67
	Wm. Whitestine.....	" "	2043	45 00
	F. B. Brewer	" "	2044	40 00
	Wash Townsend.....	" "	2045	40 00
	J. H. Brown	" "	2046	40 00
	John Conrad.....	" "	2047	40 00
	F. W. North	" "	2048	40 00
	Jean Blackford.....	" "	2049	50 00
	C. B. Hine.....	" "	2050	45 00
	Edith Cockins.....	" "	2051	40 00
	W. Standley	" "	2052	45 00
	Benj. Le Bay	" "	2053	45 00
	R. O. Keiser	" "	2054	30 00
	Lee A. Frayer.....	" "	2055	20 00
	E. F. Coddington..	" "	2056	20 00
	W. L. Graves.....	" "	2057	50 00
April 1	C. K. Wilson.....	208 hrs. w'k, greenhouse, @ 15c.	2058	31 20
	I. N. Abernathy.....	9 lectures law school @ \$2.50..	2059	22 50
	D. F. Pugh	14 " " \$2.50..	2060	35 00
	E. B. Kinkead	Sal., Sec. law school, March, '96	2061	100 00
3	Columbus Post-office.....	2,000 stamped envelopes.....	2062	44 32
4	Paul Jones.....	6 hrs. lect. law school @ \$2.50 ..	2063	15 00
	F. B. Pearson	22 hours ass't in Latin	2064	33 00
	O. R. Flynn.....	Ass't gen'l chem., March, 1896..	2065	21 00
11	Alexis Cope	Cash paid for stamps	2066	6 00
10	D. M. Massie.....	Exp., meet'gs, April 9 & 10, '96..	2067	9 75
	J. E. Campbell.....	" att'g meetings, board.....	2068	39 20
	J. T. Mack.....	" " Feb. 12 & April 9, 1896.....	2069	20 35
	W. S. Chamberlain	Exp. att'g meetings, April 9 and 10, 1896	2070	16 75
11	Florence D. Cope.....	Serv. as clerk, March 2 to April 9, 1896.....	2071	48 00
	Alexis Cope	Cash paid for express charges...	2072	10 00
	Kilbourne, Jones & Co.....	Glass.....	2073	69
	Arthur Chantler.....	7 days work as fireman @ \$1.50	2074	10 50
	C. O. Paper Co	White book ruled to order.....	2075	9 50
	James Stainbrook	31 days work as fireman @ \$1.50	2076	46 50
	J. T. Martin	Cash paid express charges.....	2077	1 14
	D. C. Huddleson.....	36 hours as guide @ 12½c.....	2078	8 10
	Miller Blose	10 " " 12½c.....	2079	1 25
	J. R. Seymour	45 " " 12½c.....	2080	5 63
	F. Huddleson	25 " " 12½c.....	2081	3 13
	C. B. Guittard	58 " " 12½c.....	2082	13 05
	C. H. Evans & Co.....	College directory.....	2083	5 00
	Columbus Gas Co.....	Bal. due Jan. 31 for light fr't...	2084	1 30
	D. H. Baldwin & Co	Piano tuning	2085	2 00
	O. S. Lear	Stencil paper.....	2086	90
	Columbus Cabinet Co....	Cab. fixt. for President's office ..	2087	43 00
	C. U. Telephone Co.....	Telephone service	2088	56 50
	Engelke & Bigelow	Freight and cartage.....	2089	19 37
	F. Charles	Cartage.....	2090	1 25
	L. E. Jennings	20 hours work @ 10c.....	2091	2 00

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1896.				
April 11	Nitschke Bros.....	Toilet paper (2 cases)	2092	\$15 00
	E. S. Aldrich.....	Services, Q. M., O. S. U	2093	5 00
	The Tallmadge Hdw. Co.	Hardware	2094	2 85
	A. H. Smythe.....	Type writer supplies.....	2095	7 20
	Columbus Mdse. Co.....	Record book.....	2096	2 60
	C. S. Hawley.....	Janitor, March 1 to 31, 1896.....	2097	13 50
	C. U. Telegraph Co.....	Telegraph service.....	2098	6 05
	T. J. Godfrey	Exp., meet., April 9 and 10, '96	2099	14 25
	Monypeny-Hammond Co.	Sapolio and baskets.....	2100	10 63
	The Tracy-Weils Co.....	Mops and dusters.....	2101	3 75
	Columbus Supply Co.....	Packing, etc.....	2102	7 95
	O. A. Davis	26½ hours work @ 10c	2103	2 65
	J. R. Spurrier.....	84½ " " 15c	2104	12 67
	Alexis Cope	Cash paid expressage	2105	10 50
	J. B. Given	60½ hours janitor @ 15c.....	2106	9 07
	Kauffman-Lattimer Co...	Chem. sup., \$63.38, bal., \$75.10..	2107	138 48
	Richards & Co	Lab. apparatus.....	2108	49 24
	Baker & Co	Plat. wire	2109	7 48
	G. W. Ochs	Copper ovens and stands	2110	20 00
	J. Carbutt	Chemicals, photo supplies.....	2111	170 06
	Kimball & Matthews	Photo supplies	2112	2 10
	Emil Greiner	Funnels repaired, etc	2113	8 35
	G. W. Crandell.....	Rep. still	2114	1 00
	Mallinckrodt Chem. W ..	Balance due on account.....	2115	76
	Engelke & Bigelow	Freight and cartage.....	2116	14 34
	Engelke & Bigelow.....	" "	2117	14 25
	J. H. Randall.....	8 hours carpenter work @ 27½..	2118	2 22
	I. N. Abernathy.....	Expenses law lectures.....	2119	31 75
	Library Bureau	Library fixtures.....	2120	7 30
	C. H. Woodruff.....	16 hours carpenter work @ 27½..	2121	4 44
	The Tallmadge Hdw. Co.	Hardware	2122	65
	T. E. French.....	Show cards, set letters, etc.....	2123	1 50
	W. S. Wiggins	Stamps, etc	2124	1 30
	Am. Soc. Mech. Eng's....	Binding Vol. XVI.....	2125	1 25
	D. Appleton & Co	Last payment on Johnson's		
		Cyclopedia.....	2126	7 00
	C. C. Wyant	1 set Sherman book.....	2127	6 37
	A. C. McClurg	1 Am. Catalogue, 1876	2128	30 00
	Olive B. Jones.....	Cash paid cartage	2129	75
	Nitschke Bros.....	Library cards and blotting	2130	3 15
	Mrs. M. A. B. Townsend..	16 vols. Am. Naturalist	2131	32 00
	West Publishing Co	Books, per invoice.....	2132	163 50
	Am. Inst. Elec. Eng	Subscription, vol. 12 and 13	2133	10 00
	Ormond Stone.....	Sub., Annuals of Mathematics..	2134	11 00
	The Lantern Pub. Co	Advertising.....	2135	100 00
	Office of Pub. Weekly....	1 Annual Literary Index.....	2136	3 50
	W. A. Kellerman.....	Books and cash for binding.....	2137	85 36
	A. H. Smythe	Books, etc	2138	1 77
	The Taylor-Austin Co....	" per invoice.....	2139	181 89
	G. E. Stechert.....	"	2140	821 92
	H. Chantler.....	127 hours work @ 12½c.....	2141	15 87
	A. J. Chantler.....	135 " " 12½c.....	2142	16 87
	Abijah Wilson	131 " " 12½c.....	2143	16 37
	Kerson Nurian.....	16 " " 12½c.....	2144	2 00
	J. W. Older.....	71 " " 12½c.....	2145	8 81
	W. Gillmore.....	20 " " 12½c.....	2146	2 50
	Ed. Denmead, D. of Ac ..	Constructing catch basin.....	2147	25 03

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1896. April 11	A. W. Livingston's Sons..	2 bu. timothy seed.....	2148	\$4 00
	Cap. City Mach. Wks....	Brass screw	2149	75
	Z. N. Barber	Blacksmithing	2150	1 00
	Herman Haerlein	Landscape gardening ..	2151	175 00
	C., S. & H. R. R. Co	Freight on stone.....	2152	45 61
	Blackwood, Green & Co..	Galv. iron and labor.....	2153	4 64
	Nitschke Bros.....	1,000 labels	2154	1 25
	Cap. City Mach. Wks....	6x3 C. pulley	2155	85
	Bissell, Dodge & Erner Co.	Wire, etc	2156	3 56
	The H. Mithoff & Co	Galv. wire.....	2157	1 16
	Neski & Huffman	Plumbing, etc.....	2158	27 79
	J. C. Tyler.....	Repairs on tools.....	2159	1 25
	O. A. Davis.....	17½ hrs. @ 12½c.; 4 hrs. @ 10c..	2160	2 85
	B. D. Potts.....	Galv. iron	2161	1 05
	G. Hirsch.....	14 hours @ 10c.....	2162	1 40
	J. R. Spurrier.....	4½ hours @ 15c.....	2163	68
	J. H. Randall	48 hrs. carp. work @ 27½c.....	2164	13 33
	C. H. Woodruff.....	75½ " " 27½c.....	2165	24 68
	The Tallmadge Hdw. Co..	Hardware	2166	6 02
	Edwin Kelton & Co.....	Lumber	2167	8 40
	Penn. Fuel Co.....	Fuel	2168	60 34
	Stitt, Price & Co.....	30 meas. lime	2169	3 00
	Franklin Fuel Co.....	Fuel, Feb. and March, 1896	2170	1,418 51
	W.F. Jones & C. Loveberry	Burying horses and horses for dissection.....	2171	17 90
	B. D. Potts.....	Forge	2172	7 00
	The People's Store.....	1 table	2173	6 00
	Cleveland Linseed Oil Co.	4,000 lbs. oil meal and \$3.60 frt.	2174	33 40
	Deering Harvester Co....	Balance due on bill.....	2175	8 65
	Nitschke Bros.....	1,000 env. and 1 ream paper....	2176	3 25
	Mrs. D. A. Crowner.....	64 hrs. type writing @ 12½c.....	2177	8 00
	O. T. Corson	Ad. Ohio Edu. Monthly.....	2178	22 50
	Nitschke Bros.....	Printing blanks, circulars, etc..	2179	45 90
	Spahr & Glenn.....	Letter heads, env., etc.....	2180	6 50
	The Storrs & Harrison Co.	Pear and quince seedlings.....	2181	3 00
	W. S. Powell.....	Inst. band, Jan. 15 to Mar. 15, '96	2182	25 00
	Koch's Music Store.....	Instruments for band	2183	39 35
	Henry Goldsmith.....	Band supplies.....	2184	19 25
	Engelke & Bigelow.....	Freight and cartage.....	2185	5 10
	C. K. McClelland.....	40 hrs. work library @ 12½c.....	2186	5 00
	G. S. Marshall	56 " " 12½c.....	2187	7 00
	Maud Jeffrey	160 " " 12½c.....	2188	20 00
	Gertrude Kellicott.....	120 " " 12½c.....	2189	15 00
	E E Davis	15 " " 15c.....	2190	2 25
	F. C. Caldwell.....	Lab. supplies purchased.....	2191	6 35
	Kimball & Mathews	Photo. supplies.....	2192	1 65
	Baker & Co	1 Gram. Ba. P. N. (C. N.) 4	2193	1 60
	Rosengarten & Sons	Plat and Bar. Cyanide and B't..	2194	85
	Western Elec. Ins. Co....	Rep. Volt meter & ammeter, etc	2195	11 00
	Bausch & Lomb Op. Co..	Lens fitted in telescope	2196	74
	Kauffman-Lattimer Co...	Mercury flask.....	2197	16 25
	Col. Brass Co.....	7½ lbs. composition	2198	1 88
	C. H. Irvin	46 hours @ 12½c.....	2199	5 75
	Bissell, Dodge & Erner Co.	Wire and binding posts	2200	4 08
	Schoedinger, Fearn & Co.	1 soap dish.....	2201	25
	The Tallmadge Hdw. Co.	Twine, bolts, etc	2202	35
	Ft. Wayne Elec. Corp....	1 lot punched iron.....	2203	15 15

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1896.				
April 11	C. B. Morrey.....	Frogs, dogs, towels, etc	2204	\$13 51
	J. H. Randall.....	24 hrs. carp. work @ 27½c	2205	6 69
	Franklin Educational Co.	Chemicals	2206	3 38
	A. D. Howard.....	27 hours work @ 15c.....	2207	4 05
	E. A. Kinsey & Co.....	Machinery supplies.....	2208	35 11
	F. Charles	Cartage.....	2209	50
	A. C. Barrows.....	Cash paid for books.....	2210	2 95
	F. S. Wells	Edition Bryant.	2211	3 40
	Ginn & Co.....	Books	2212	11 92
	Henry Holt & Co.....	"	2213	3 60
	C. H. Woodruff	12½ hours work @ 27½c.....	2214	3 97
	Ginn & Co.....	Books	2215	10 00
	Rand, McNally & Co.....	" and maps.....	2216	10 10
	G. E. Stechert	"	2217	4 20
	Wm. McPherson	1 copy Century Dictionary	2218	50 00
	Taylor-Austin Co.....	Books	2219	9 10
	Spahr & Glenn.....	100 copies ex. questions	2220	3 75
	Engelke & Bigelow	Freight and cartage	2221	50
	C. H. Evans & Co.....	1 page in Am. Coll. & P. S. Dir	2222	5 00
	Bissell, Dodge & Erner Co.	Chem. app.....	2223	5 76
	R. S. King.....	Serv. dept. gen. chem	2224	3 50
	Blackwood, Green & Co.	Hardware, wire, copper, etc.....	2225	20 21
	Col. Rubber & Belting Co.	30 feet hose	2226	2 40
	Col. Supply Co.....	Small hardware, etc	2227	3 56
	Eimer & Amend	4 stem thermometers.....	2228	4 68
	Cap. City Mach. Wks.....	Iron pulley	2229	3 57
	The Tallmadge Hdw. Co.	Hardware.....	2230	60
	Engelke & Bigelow	Freight paid and cartage.....	2231	10 00
	F. A. & W. J. Hutchison	Carbon plates, etc	2232	4 25
	C. E. Nicholas.....	2 plates zinc	2233	1 20
	Barrow Pic. Frame Co...	1 frame.....	2234	8 75
	Hann & Adair	1 dozen and 11 pass books.....	2235	1 15
	A. H. Smythe.....	1 Minn. and T. W. attachment..	2236	17 50
	W. H. Caldwell	1 lecture agr. course	2237	25 00
	Hann & Adair	Ptg. placards agr. lec. course....	2238	1 95
	S. C. Derby	Books	2239	1 68
	J. H. Randall.....	49½ hrs. carp. work @ 27½c	2240	13 75
	C. H. Woodruff.....	37½ " " @ 27½c	2241	10 42
	Edwin Kelton & Co.....	Lumber	2242	7 54
	Engelke & Bigelow	Freight and cartage	2243	1 49
	Cap. City Mach. Wks.....	Pulleys, screen hangers, etc.....	2244	25 76
	Wellington Box Co.....	36 cheese boxes.....	2245	3 24
	Smith & Moore.....	½ dozen tubs	2246	3 50
	N. F. Pheneger.....	24,951 lbs. milk less cr. 312.77..	2247	111 40
	Taylor-Austin Co.....	Books	2248	58 90
13	J. R. Seymour.....	500 2-c, 500 1-c. postage stamps	2249	15 00
18	Jean Blackford.....	1,000 1-c. postage stamps	2250	10 00
25	J. H. Canfield.....	10 salary, April inst., 1896.....	2251	600 00
	T. F. Hunt.....	" "	2252	250 00
	Edw. Orton	" "	2253	225 00
	W. H. Scott	" "	2254	225 00
	S. C. Derby	" "	2255	225 00
	W. R. Lazenby.....	" "	2256	225 00
	J. R. Smith.....	" "	2257	225 00
	H. A. Weber.....	" "	2258	225 00
	Olive B. Jones	" "	2259	80 00
	B. F. Thomas	" "	2260	225 00

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1896.				
April 25	G. W. Knight.....	$\frac{1}{10}$ salary, April inst., 1896.....	2261	\$225 00
	R. D. Bohannon.....	" " ".....	2262	225 00
	D. S. Kellicott.....	" " ".....	2263	225 00
	C. Newton Brown.....	" " ".....	2264	225 00
	E. A. Eggers.....	" " ".....	2265	225 00
	A. M. Bleile.....	" " ".....	2266	225 00
	W. A. Kellerman.....	" " ".....	2267	225 00
	A. L. Williston.....	" " ".....	2268	220 00
	B. L. Bowen.....	" " ".....	2269	210 00
	A. C. Barrows.....	" " ".....	2270	210 00
	J. V. Denney.....	" " ".....	2271	210 00
	N. W. Lord.....	" " ".....	2272	200 00
	W. F. Hunter.....	" " ".....	2273	200 00
	G. B. Kauffman.....	" " ".....	2274	200 00
	Edw. Orton, Jr.....	" " ".....	2275	180 00
	J. N. Bradford.....	" " ".....	2276	180 00
	F. A. Ray.....	" " ".....	2277	180 00
	Wm. McPherson.....	" " ".....	2278	180 00
	G. W. McCoard.....	" " ".....	2279	160 00
	S. A. Norton.....	" " ".....	2280	120 00
	F. C. Caldwell.....	" " ".....	2281	120 00
	H. C. Lord.....	" " ".....	2282	120 00
	R. I. Fulton.....	" " ".....	2283	120 00
	E. A. Hitchcock.....	" " ".....	2284	120 00
	E. A. Kemmler.....	" " ".....	2285	120 00
	W. D. Gibbs.....	" " ".....	2286	100 00
	C. W. Mesloh.....	" " ".....	2287	100 00
	D. S. White.....	" " ".....	2288	100 00
	F. E. French.....	" " ".....	2289	90 00
	F. C. Clarke.....	" " ".....	2290	90 00
	C. W. Weick.....	" " ".....	2291	80 00
	W. A. Knight.....	" " ".....	2292	80 00
	F. J. Combs.....	" " ".....	2293	80 00
	N. H. Brown.....	" " ".....	2294	80 00
	J. R. Taylor.....	" " ".....	2295	75 00
	J. S. Hine.....	" " ".....	2296	75 00
	L. M. Bloomfield.....	" " ".....	2297	70 00
	C. B. Morrey.....	" " ".....	2298	70 00
	J. A. Bownocker.....	" " ".....	2299	70 00
	A. P. Winston.....	" " ".....	2300	70 00
	C. L. Arnold.....	" " ".....	2301	70 00
	C. A. Dye.....	" " ".....	2302	70 00
	Ernest Bradford.....	" " ".....	2303	60 00
	H. M. Ball.....	" " ".....	2304	60 00
	T. K. Lewis.....	" " ".....	2305	50 00
	C. A. Bruce.....	" " ".....	2306	50 00
	F. L. Landaere.....	" " ".....	2307	50 00
23	E. O. Randall.....	20 lectures law school, @ \$2.50.	2308	50 00
24	F. M. Senter, P. M.....	500 2-c stamps, postage on 2d class matter.....	2309	20 00
25	K. D. Swartzel.....	$\frac{1}{10}$ salary, April inst., 1896.....	2310	80 00
	W. L. Evans.....	" " ".....	2311	30 00
	R. M. Hughes.....	" " ".....	2312	30 00
	Harriet Townsend.....	" " ".....	2313	30 00
	F. Haas.....	" " ".....	2314	30 00
	E. M. Wilcox.....	" " ".....	2315	25 00
	G. H. Calkins.....	" " ".....	2316	25 00

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1896.				
April 25	F. E. Kester	$\frac{1}{10}$ salary, April inst., 1896.....	2317	\$25 00
	W. K. Morehead	Salary for April, 1896.....	2318	50 00
	Alexis Cope	"	2319	187 50
	F. W. Prentiss.....	"	2320	33 33
	W. C. McCracken.....	"	2321	100 00
	Chas. Low.....	"	2322	50 00
	Thos Boude	"	2323	45 00
	Jas. Kelley.....	"	2324	41 67
	Wm. Whitestone.....	"	2325	45 00
	F. B. Brewer.....	"	2326	40 00
	Wash Townsend.....	"	2327	40 00
	J. E. Adams.....	"	2328	40 00
	John Conrad.....	"	2329	40 00
	Jean Blackford.....	"	2330	50 00
	C. B. Hine.....	"	2331	45 00
	Edith Cockins.....	"	2332	40 00
	Wm. Standley.....	"	2333	45 00
	B. LeBay.....	"	2334	45 00
	R. O. Keiser.....	$\frac{1}{10}$ salary, April inst., 1896.....	2335	30 00
	Lee A. Frayer.....	Salary for April, 1896.....	2336	20 00
	W. R. Graves.....	$\frac{1}{10}$ salary, April inst., 1896.....	2337	50 00
	C. K. Wilson.....	Salary for April, 1896.....	2338	40 00
	E. F. Coddington.....	Salary as janitor, 1896.....	2339	20 00
	W. F. Lavery.....	$\frac{1}{10}$ salary, April inst., 1896.....	2340	70 00
May 1	E. B. Kinkead	"	2341	100 00
2	D. F. Pugh.....	13 lectures law school, @ \$2 50.	2342	32 50
	F. B. Pearson.....	22 hrs. as ass't in Latin, Apr. '96	2343	33 00
	F. W. Prentiss, Treas.....	For bill of exch. in payment of bill, E. Limmon.....	2344	46 80
	F. W. Prentiss, Treas.....	Payment on account of H. Sothorn & Co., London.....	2345	225 05
	Herman Weber.....	118 hours labor, @ 30c.....	2346	35 40
	R. S. King.....	50 " 12 $\frac{1}{2}$ c.....	2347	6 25
	J. M. Auld.....	97 " 12 $\frac{1}{2}$ c.....	2348	12 13
	W. Chantler	78 " 12 $\frac{1}{2}$ c.....	2349	10 12
	A. J. Chantler	258 " 12 $\frac{1}{2}$ c.....	2350	32 25
	H. Chantler.....	250 " 12 $\frac{1}{2}$ c.....	2351	31 25
	J. B. McHenry.....	83 " 12 $\frac{1}{2}$ c.....	2352	10 38
	C. G. Morrow.....	119 " 12 $\frac{1}{2}$ c.....	2353	14 88
	Wm. Gilmore.....	95 " 12 $\frac{1}{2}$ c.....	2354	11 88
	J. C. Britton.....	55 " 12 $\frac{1}{2}$ c.....	2355	6 88
	H. W. Libbett.....	159 " 12 $\frac{1}{2}$ c.....	2356	19 88
	J. W. Older.....	231 " 12 $\frac{1}{2}$ c.....	2357	28 88
	A. G. McCall.....	75 " 12 $\frac{1}{2}$ c.....	2358	9 38
	J. M. Grogg.....	150 " 12 $\frac{1}{2}$ c.....	2359	18 75
	J. M. Leammon.....	128 hrs. lab., man & team @ 30c.	2360	38 40
	Grant Clayton.....	66 " " 30c.....	2361	19 80
	W. S. Scott.....	30 hours labor, @ 12 $\frac{1}{2}$ c.....	2362	3 75
	Karl Starbuck.....	27 " 12 $\frac{1}{2}$ c.....	2363	3 38
	H. W. Henderson.....	15 " 12 $\frac{1}{2}$ c.....	2264	1 88
	C. W. Bryant.....	21 " 12 $\frac{1}{2}$ c.....	2365	6 30
	Sherman Case.....	7 hrs labor, 2 masons rep. culv..	2366	4 90
	D. C. Thomas.....	30 $\frac{1}{2}$ " @ 20c.....	2367	6 10
	F. S. Aten.....	82 " 12 $\frac{1}{2}$ c.....	2368	10 25
6	W. B. Sells, agt C. S. & H. R. R. Co.....	Freight on lime stone.....	2369	77 71
	Z. N. Barber.....	Rep. wheels, mattocks, etc.....	2370	2 15

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1896.				
May 6	The Norris & Christian L. & S. Co.....	Crushed stone	2371	\$283 11
	A. W. Livingston's Sons..	40 lbs. grass seed	2372	3 44
	C. G. Morrow	10 hours work @ 12½c.....	2373	1 25
	E. C. Green	197 " labor @ 15c.....	2374	29 55
	M. Schoder	120 " " 12½c.....	2375	15 00
	The Storrs & Harrison Co.	Trees, etc	2376	19 95
	John Condert	30 hours labor @ 12½c.....	2377	9 00
	John Libbett.....	88 " " 12½c.....	2378	11 00
	G. L. Chambers	85 " " 12½c.....	2379	10 62
	H. L. Pretz	10 " " 12½c.....	2380	1 25
	Spencer Sigler	155 " " 12½c.....	2381	19 38
	F. J. Hall.....	10 " " 12½c.....	2382	1 25
	J. H. King.....	59 " " 12½c.....	2383	7 38
	Kerson Nurian.....	17 " " 12½c.....	2384	2 12
	F. H. Kerr.....	71 " " 12½c.....	2385	8 88
	Wm. Haynes.....	Hauling stone.....	2386	4 25
	W. B. Sells, Ft. Ag't	Car service, crushed stone.....	2387	9 70
	Kauffman-Lattimer Co....	Chemicals	2388	117 10
	Benj. French & Co.....	Photo supplies—Euryscope.....	2389	23 00
	Emil Greimer.....	1 agate motar and pestle	2390	1 75
	H. Cole.....	1 roll 36 in. tr. paper and blue prin. paper	2391	9 25
	Mallinekrodt Chem. W. ..	Hydrochloric acid.....	2392	21 88
	Engelke & Bigelow.....	Freight and cartage	2393	18 40
	U. S. Express Co	"	2394	60
	Adams Express Co	"	2395	80
	Columbus Transfer Co ...	" and cartage	2396	1 09
	Alexis Cope	Exp. charges paid, etc	2397	26 30
	C. S. Hawley.....	Janitor work, April 1 to 31, '96	2398	13 50
	D. C. Huddleson	Guide, April 7 to 22	2399	4 52
	Ira H. Miller	Affidavits for custom house	2400	3 20
	Florence D. Cope.....	Services as clerk, April 6 to May 5, 1896.....	2401	34 50
	James Stainbrook	Serv., as fireman, 30 d. @ \$1.50.....	2402	45 00
	Miller Blose	4 hours as guide @ 12½c.....	2403	50
	R. J. Seymour	21 " " 12½c.....	2404	2 62
	C. B. Guittard.....	47 " " 12½c.....	2405	5 87
	M. J. Persing	5 " " 12½c.....	2406	62
	C. E. Arnold.....	13 hours addr'g env. @ 15c.....	2407	1 95
	The Ruggles-Gale Co.	1 Premier cabinet	2408	2 00
	T. Ewing Miller	Office rent, gas and janitor paid..	2409	111 70
	Water Department	1 tap	2410	7 50
	C. A. Grate	21 hours janitor work.....	2411	3 15
	L. E. Jennings	21 " "	2412	2 10
	Geo. Martin.....	6 " labor @ 10c.....	2413	60
	O. A. Davis.....	35 " work 12c	2414	4 20
	G. Hirsch.....	4½ " " 10c	2415	45
	Am. Bell Telephone Co..	Experimental instruments.....	2416	6 90
	Col. Edison Elec. L't Co..	2 rolls Manson tape.....	2417	70
	Mica Insulator Co.....	Micanite tubes.....	2418	1 63
	The Tallmadge Hdw. Co.	Small hardware, etc.....	2419	15 57
	D. C. Beggs.....	Shades and shade cloth	2420	3 17
	J. B. Colt & Co.....	1 Auto-electric lamp	2421	54 00
	Neski & Huffman	Materials and repairs.....	2422	12 88
	B. D. Potts.....	Small hardware and fittings.....	2423	2 12
	Payne, McDonald H. Co..	Screen doors, fittings, etc	2424	3 06

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1896.				
May 6	E. Kelton & Co.....	Lumber	2425	\$13 25
	C. A. Grate	28½ hours work.....	2426	2 85
	O. A. Davis	19½ " @ 12c.....	2427	2 34
	Blackwood, Green & Co..	Galv. iron, tin, labor, etc.....	2428	96 28
	C. H. Woodruff.....	197 hours carp. work @ 27½.....	2429	54 83
	Lloyd Williams	32 " work @ 12½c.....	2430	4 00
	C. K. McClelland..	44 " " 12½c.....	2431	5 50
	Gertrude Kellicott.....	88 " " 12½c.....	2432	11 00
	M. D. Jeffrey	108 " " 12½c.....	2433	13 50
	Penn. Fuel Co.....	Fuel	2434	55 68
	Stitt, Price & Co.....	42 measures lime.....	2435	4 20
	Nitschke Bros	Printing circulars, etc	2436	62 17
	P. Hayden S.-Hdw. Co...	Bronze step, shaft, etc.....	2437	14 08
	Edw. Orton, Jr.....	Cash advanced for work.....	2438	6 07
	Blackwood, Green & Co..	Copper and labor.....	2439	1 80
	McAuley & Peters.....	Sacks and duck	2440	3 30
	Newark L. & C. Mfg. Co.	5 barrels pottery plaster.....	2441	7 25
	Schoedinger, Fearn & Co.	Scoops, paint, etc.....	2442	1 10
	Standard Oil Co.....	1 barrel gasoline	2443	6 83
	G. E. Stechert	Books	2444	15 70
	F. Charles	Cartage	2445	2 00
	Zanesville Stoneware Co.	1 barrel washed clay.....	2446	1 75
	Eimer & Amend.....	Mortars	2447	15 44
	The Fish Stone Co.....	Hauling stone, etc.....	2448	6 25
	A. C. True	1 lecture Agr. course.....	2449	10 00
	A. H. Reid.....	Freight charges on loaned Reid separator	2450	2 50
	Sherman Case	Labor and mortar, barn found'n.	2451	50 00
	Mrs. D. A. Crouner.....	80 hours type writing	2452	10 00
	Cap. City Machine Wks..	Pulleys and stand	2453	44
	Ashcroft Mfg. Co.....	Balance on account.....	2454	1 02
	J. J. Freeland	4 lbs. brass castings	2455	1 20
	John Hayes & Co.....	1 calf skin	2456	1 00
	Columbus Supply Co	Nipples, etc.....	2457	89
	W. S. Powell.....	Services, band instructor	2458	12 50
	N. E. Lovejoy.....	300 feet flooring.....	2459	7 37
	D. S. White.....	Soap, towels, etc.....	2460	3 00
	Wm. Stahl.....	Handle, piston, etc	2461	5 00
	Bausch & Lomb Opt. Co..	Lenses, etc.....	2462	6 75
	Freda Detmers	34 hours work @ 15c.....	2463	5 10
	A. W. Livingston's Sons..	1 Planet, Jr., harrow.....	2464	7 00
	W. H. Scott.....	Express charges paid, etc.....	2465	1 80
	Hann & Adair	200 schedules recitations	2466	3 25
	The Dynamo Assoc.....	6 issues "ad." in Dynamo.....	2467	2 00
	The Lantern	238 subscriptions	2468	50 00
	Central Ohio Paper Co..	Wh. book ruled to order	2469	9 50
	The Clev. Linseed Oil Co.	4,000 lbs. linseed oil meal	2470	33 00
	W. H. Morley.....	5 tons meal	2471	67 50
9	I. N. Abernathy.....	11 lect. law school @ \$2.50.....	2472	27 50
	W. F. Hunter.....	½ salary, law faculty.....	2473	240 00
	E. O. Randall.....	21 lect. law school @ \$2.50.....	2474	52 50
	Columbus Water Works..	Water rents and charges	2475	256 28
11	F. M. Senter, P. M.....	500 1-c, 500 2-c postage stamps..	2476	15 00
16	O. W. Aldrich.....	38 lect. law school @ \$2.50	2477	95 00
19	W. I. Chamberlain	Exp. at meeting this day.....	2478	14 40
20	Franklin Fuel Co	Coal.....	2479	203 23
	N. Wagner.....	1½ days labor, man and team ...	2480	3 75

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1896.				
May 20	Neski & Huffman.....	Plumbing, etc.....	2481	\$335 80
	D. M. Massie.....	Expenses meetings to date.....	2482	14 25
	T. J. Godfrey.....	" ".....	2483	10 20
	J. B. Given.....	Janitor work April, 1896.....	2484	8 10
	Alexis Cope.....	Cash adv. for money drawer.....	2485	10 00
	J. T. Martin.....	Express charges paid, etc.....	2486	3 37
	McMillin & Co.....	Books.....	2487	4 85
	The Taylor Austin Co.....	".....	2488	2 93
	J. A. Fay & Egan Co.....	1 scroll saw.....	2489	30 00
	The Hanna Paint Mfg Co.....	Shellac, paint, etc.....	2490	11 97
	The Griswold-Sohl Co.....	Iron, etc.....	2491	1 54
	Pickering Hdw. Co.....	$\frac{1}{2}$ doz. champion screws.....	2492	1 65
	Shilling Foundry Co.....	Plate and castings.....	2493	14 85
	Blackwood, Green & Co.....	Galvanized iron, etc.....	2494	2 46
	Chicago Clamp Co.....	Clamps, etc.....	2495	3 00
	Columbus Brass Co.....	Brass castings.....	2496	5 00
	The Talmadge Hdw. Co.....	Small hardware.....	2497	10 98
	L. Veit & Co.....	Repairing instruments.....	2498	15 50
	Riehle Bros.....	Merchandise.....	2499	34 75
	Spahr & Glenn.....	Reports and financial statement.....	2500	6 00
	John Dewey & Co.....	Fence posts and braces.....	2501	162 50
	Bausch & Lomb Opt. Co.....	Boxes, slips etc.....	2502	6 75
	J. N. Bradford.....	Work in photo. for Cen. Mag. adv.....	2503	9 70
	The Engineering Record.....	Advertising.....	2504	5 60
	The Talmadge Hdw. Co.....	Screw, clamps and bolts.....	2505	80
	Scioto Boiler Works.....	1 tank.....	2506	22 00
	Schoedinger, Fearn & Co.....	Shellac etc.....	2507	1 60
	Hann & Adair.....	500 Note Heads in pads.....	2508	1 75
	West Pub. Co.....	5 copies Clark on Contracts.....	2509	18 75
29	Jas. H. Canfield.....	$\frac{1}{10}$ salary, May inst., 1896.....	2510	600 00
	T. F. Hunt.....	" ".....	2511	250 00
	Edw. Orton.....	" ".....	2512	225 00
	W. H. Scott.....	" ".....	2513	225 00
	S. C. Derby.....	" ".....	2514	225 00
	W. R. Lazenby.....	" ".....	2515	225 00
	J. R. Smith.....	$\frac{2}{10}$ salary, May and June, 1896.....	2516	450 00
	H. A. Weber.....	$\frac{1}{10}$ salary, May inst., 1896.....	2517	225 00
	B. F. Thomas.....	" ".....	2518	225 00
	G. W. Knight.....	" ".....	2519	225 00
	E. A. Eggers.....	$\frac{2}{10}$ salary, May and June, 1896.....	2520	450 00
	R. D. Bohannon.....	$\frac{1}{10}$ salary, May inst., 1896.....	2521	225 00
	D. S. Kellicott.....	" ".....	2522	225 00
	E. A. Eggers.....	Equipment dept. year '96-'97.....	2523	50 00
	C. N. Brown.....	$\frac{1}{10}$ salary, May inst., 1896.....	2524	225 00
	A. M. Bleile.....	" ".....	2525	225 00
	W. A. Kellerman.....	" ".....	2526	225 00
	A. L. Williston.....	" ".....	2527	220 00
	B. L. Bowen.....	" ".....	2528	210 00
	A. C. Barrows.....	" ".....	2529	210 00
	J. V. Denney.....	" ".....	2530	210 00
	N. W. Lord.....	" ".....	2531	200 00
	W. F. Hunter.....	" ".....	2532	200 00
	G. B. Kauffman.....	" ".....	2533	200 00
	Edw. Orton, Jr.....	" ".....	2534	180 00
	J. N. Bradford.....	" ".....	2535	180 00
	F. A. Ray.....	" ".....	2536	180 00
	W. McPherson.....	" ".....	2537	180 00

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1896.				
May 29	G. W. McCoard.....	$\frac{1}{10}$ salary, May inst., 1896.....	2538	\$160 00
	S. A. Norton.....	" ".....	2539	120 00
	F. C. Caldwell.....	" ".....	2540	120 00
	H. C. Lord.....	" ".....	2541	120 00
	E. A. Kemmler.....	" ".....	2542	120 00
	R. I. Fulton.....	" ".....	2543	120 00
	E. A. Hitchcock.....	" ".....	2544	120 00
	W. D. Gibbs.....	" ".....	2545	100 00
	C. W. Mesloh.....	" ".....	2546	100 00
	D. S. White.....	" ".....	2547	100 00
	T. E. French.....	" ".....	2548	90 00
	F. C. Clarke.....	" ".....	2549	90 00
	O. B. Jones.....	" ".....	2550	80 00
	C. W. Weick.....	" ".....	2551	80 00
	W. A. Knight.....	" ".....	2552	80 00
	F. J. Combs.....	" ".....	2553	80 00
	N. H. Brown.....	" ".....	2554	80 00
	J. R. Taylor.....	" ".....	2555	75 00
	J. S. Hine.....	" ".....	2556	75 00
	L. M. Bloomfield.....	" ".....	2557	70 00
	C. B. Morrey.....	" ".....	2558	70 00
	J. A. Bownocker.....	" ".....	2559	70 00
	A. P. Winston.....	" ".....	2560	70 00
	C. L. Arnold.....	" ".....	2561	70 00
	C. A. Dye.....	" ".....	2562	70 00
	Ernest Bradford.....	" ".....	2563	60 00
	H. M. Ball.....	" ".....	2564	60 00
	T. K. Lewis.....	" ".....	2565	50 00
	C. A. Bruce.....	" ".....	2566	50 00
	F. L. Landacre.....	" ".....	2567	50 00
	K. D. Swartzel.....	" ".....	2568	80 00
	W. L. Evans.....	" ".....	2569	30 00
	A. M. Hughes.....	" ".....	2570	30 00
	Harriet Townsend.....	" ".....	2571	30 00
	F. Haas.....	" ".....	2572	30 00
	E. M. Wilcox.....	" ".....	2573	25 00
	G. H. Calkins.....	" ".....	2574	25 00
	F. E. Kester.....	" ".....	2575	25 00
	J. T. Mack.....	Exp. of meeting May 19, 1896..	2576	9 40
	W. K. Morehead.....	Salary for May, 1896.....	2577	50 00
	Alexis Cope.....	" ".....	2578	187 50
	F. W. Prentiss.....	" ".....	2579	33 33
	W. C. McCracken.....	" ".....	2580	100 00
	Chas. Low.....	" ".....	2581	50 00
	Thos. Boudé.....	" ".....	2582	45 00
	Jas. Kelley.....	" ".....	2583	41 67
	Wm. Whitestine.....	" ".....	2584	45 00
	F. B. Brewer.....	" ".....	2585	40 00
	Wash Townsend.....	" ".....	2586	40 00
	John Conrad.....	" ".....	2587	40 00
	C. K. Wilson.....	" ".....	2588	40 00
	Jean Blackford.....	" ".....	2589	50 00
	C. B. Hine.....	" ".....	2590	45 00
	Edith Cockins.....	" ".....	2591	40 00
	Wm. Standley.....	" ".....	2592	45 00
	B. LeRay.....	" ".....	2593	45 00
	R. O. Keiser.....	$\frac{1}{10}$ salary, May inst., 1896.....	2594	80 00

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1896.				
May 29	Lee A. Frayer.....	Salary for May, 1896.....	2595	\$20 00
	E. F. Coddington.....	".....	2596	20 00
	W. L. Graves.....	$\frac{1}{10}$ salary, May inst., 1896.....	2597	50 00
	F. M. Senter, P. M.....	1,500 1-c stamps.....	2598	15 00
9	W. F. Lavery.....	Salary for May, 1896.....	2599	70 00
29	J. E. Adams.....	".....	2600	40 00
28	G. W. Knight.....	29 law lectures at \$2.50.....	2601	72 50
June 1	E. B. Kinkead.....	$\frac{1}{10}$ salary, May inst. 1896.....	2602	100 00
	F. B. Pearson.....	21 hours teaching Latin.....	2603	31 50
	F. W. Prentiss, Cashier...	Payment of certificates Nos. 11 to 20—\$10,000; int., \$3,000 ...	2604	13,000 00
2	F. M. Senter, P. M.....	500 2-c postage stamps.....	2605	10 00
3	D. F. Pugh.....	13 lectures law school @ \$2.50..	2606	32 50
	F. D. Cope.....	24 days clerk @ \$1.50.....	2607	36 00
4	Mrs. D. A. Crowner.....	Clerical asst. dept. agr.....	2608	8 00
	M. D. Jeffrey.....	144 hours work in library.....	2609	18 00
	Alexis Cope.....	Cash adv. for express charges...	2610	10 00
	C. K. McClelland.....	56 hours work in library.....	2611	7 00
	G. S. Marshall.....	36 " ".....	2612	4 50
	L. S. Williams.....	10 " ".....	2613	1 25
	Gertrude Kellicott.....	90 " ".....	2614	11 25
	T. Ewing Miller.....	6 months rent of office.....	2615	111 75
	Ira H. Miller.....	Notary work.....	2616	1 20
	Col. Merchandise Co.....	1 case crayons, etc.....	2617	6 24
	F. C. Caldwell.....	75 2-c stamps.....	2618	1 50
	C. S. Hawley.....	Janitor for month May.....	2619	13 50
	C. A. Grate.....	23 hours labor.....	2620	4 20
	H. C. Chapin.....	78 pages typewriting.....	2621	11 70
	Cherrington Printing Co.	1 rubber stamp.....	2622	30
	Wm. Wightman.....	2 loads saw dust.....	2623	2 00
	M. J. Persing.....	Guide for visitors, 7 hours.....	2624	87
	A. L. Buckman.....	Janitor for 2 months.....	2625	26 70
	J. B. Given.....	76 $\frac{1}{2}$ hours janitor.....	2626	11 47
	F. Huddleson.....	Guide duty, 26 hours.....	2627	3 25
	S. Hawkrigde.....	Condensing lens.....	2628	7 50
	J. B. Cott & Co.....	100 carbons.....	2629	2 00
	D. C. Huddleson.....	56 hours guide duty.....	2630	7 00
	R. J. Seymour.....	29 ".....	2631	3 62
	C. B. Guittard.....	59 ".....	2632	7 37
	The Norris & Christian Stone Co.....	15 cars limestone.....	2633	124 14
	W. B. Sells, Ft. Agt.....	Freight on 15 cars stone.....	2634	97 29
	John Couderd.....	65 h. lab. man & team on campus	2635	19 50
	K. Nurian.....	24 " ".....	2636	3 00
	C. G. Morrow.....	106 " ".....	2637	13 25
	S. Sigler.....	237 " ".....	2638	29 63
	J. W. Older.....	262 " ".....	2639	32 75
	R. S. King.....	10 hours building fence.....	2640	1 25
	O. P. Linville.....	15 " ".....	2641	1 88
	A. G. McCall.....	21 " ".....	2642	2 63
	W. S. Scott.....	10 " ".....	2643	1 25
	F. S. Aten.....	38 hours labor on campus.....	2644	4 75
	H. Chantler.....	265 " ".....	2645	33 12
	H. B. Henderson.....	10 " fence.....	2646	1 25
	L. D. Davis.....	400 rods woven wire fence.....	2647	230 00

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1896.				
June 4	P. F. Yoerger	12 signs	2648	\$6 00
	Albaugh-Orhard Co	65 potted flowers	2649	13 35
	C. W. Waird	40 hours labor on grounds.....	2650	5 00
	E. C. Green	235 " "	2651	35 25
	A. F. Wilcox	67 " fence	2652	15 08
	M. G. Blose	10 " "	2653	1 25
	A. J. Chantler	260 " grounds.....	2654	32 50
	J. M. Auld	102 " "	2655	12 75
	J. W. Patterson	76 " man and team...	2656	22 80
	J. M. Leammon	148 " "	2657	44 40
	J. Evans	57 " "	2658	17 10
	H. W. Libbett	142 " on campus	2659	17 76
	John Libbett	229 " "	2660	28 63
	J. Grogg	243 " roads & g'ds..	2661	30 37
	H. L. Reitz	95 " "	2662	11 88
	Wm. Gilmore	65 " "	2663	8 13
	J. H. King	78 " "	2664	9 74
	G. G. Linebaugh	86 " "	2665	10 75
	G. S. Chambers	80 " campus..	2666	10 00
	S. Dickson	38 " man and team...	2667	11 40
	C. Dozer	24 " "	2668	7 20
	J. B. McHenry	76 " on roads & g'ds..	2669	9 49
	N. B. Abbott	Use of steam roller	2670	20 00
	Herman Weber	128 hours labor man and team..	2671	37 40
	P. Hayden S. & H. Co ..	Hardware	2672	4 68
	Penn. Fuel Co	4,000 lbs. nut coal	2673	3 94
	Scioto Boiler Works	1 stack as per contract	2674	33 00
	E. A. Cole & Co	23,340 lbs. coal	2675	23 92
	Stitt, Price & Co	30 M lime	2676	3 00
	Penn. Fuel Co	4,550 lbs. coal	2677	5 35
	Kimball & Mathews	Photo. supplies	2678	16 92
	Peter Henderson & Co ..	Seeds, bulbs, etc	2679	2 65
	Eimer & Amend	Chem. supplies	2680	1 64
	Mallinckrodt Chem. Wks.	Chemicals	2681	41 17
	Bissell, Dodge & Erner Co	Electric supplies	2682	68 69
	Payne & McDonald	Hardware	2683	5 75
	B. D. Potts	" "	2684	1 00
	H. H. Walling	Painting and varnishing	2685	7 65
	Neski & Huffman	Plumbing	2686	9 91
	C. H. Woodruff	125 hours carpenter work	2687	34 72
	The Tallmadge Hdw. Co.	Hardware for ordinary repairs..	2688	13 94
	D. C. Thomas	7 hours painting	2689	1 40
	Electric Appliance Co ..	Electric apparatus	2690	33 42
	H. Braun, Sons & Co	1 gallon paint	2691	1 35
	Col. Wire Works	Wire doors, etc	2692	15 70
	Col. Supply Co	Hardware, pipe, threads, etc....	2693	21 07
	Thos. Austin	Castings	2694	1 17
	Edwin Kelton & Co	Lumber	2695	64
	Barnitz & Nunemacher ..	Stop timer	2696	5 00
	Nitschke Bros	Paper	2697	75
	E. A. Hitchcock	Supplies	2698	2 35
	Cap. City Mach. Wks.	Castings	2699	1 98
	The Tallmadge Hdw. Co.	Hardware	2700	2 66
	Bucher Eng. Co	Etch. map	2701	1 50
	A. W. Livingston's Sons.	No. 8 horse hoe	2702	7 25

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1896.				
June 4	J. E. Dutor	Moving barn as per contract....	2703	\$150 00
	B. F. Thomas	1 commutator	2704	6 15
	C. H. Woodruff	8 hrs. carpenter work	2705	2 22
	The Tallmadge Hdw. Co.	Hardware	2706	1 93
	Jeffrey Mfg. Co.	Magnet wire	2707	2 68
	Bissell, Dodge & Erner Co.	Wire	2708	80
	Blackwood, Green & Co.	Tinning	2709	2 08
	F. H. Blackburn	Electric apparatus	2710	5 90
	W. W. Miller	Barometer	2711	15 00
	Beacon Lamp Co.	One Crookes tube.....	2712	6 15
	Schaffer & Budenberg.....	Physical apparatus.....	2713	2 50
	The Webb Mtg. Co.	17 m. office stationery.....	2714	85 00
	C. O. Paper Co.	Examination paper.....	2715	12 50
	The O. S. Journal Co.	Advertising "sealed proposals"	2716	7 14
	Josephine Barnaby	Directing envelopes.....	2717	3 25
	A. N. Kellogg Co.	Advertising plates.....	2718	70 00
	Toledo Bee.....	" " "sealed proposals"	2719	7 90
	Leader Printing Co.	" " " " " " " "	2720	7 50
	Enquirer Co.	" " proposals	2721	4 50
	Commercial Gazette	" " " " " " " "	2722	9 00
	Toledo Blade.....	" " " " " " " "	2723	7 90
	Hann & Adair	200 large envelopes.....	2724	1 50
	L. T. Williams	Directing envelopes	2725	75
	Odessa High.....	" " " " " " " "	2726	1 12
	Nitschke Bros.....	Printing as per bills.....	2727	119 75
	B. D. Potts.....	Valves and pump	2728	5 85
	M. Peck	8 days labor digg'g well & trench	2729	13 65
	Jas. Stainbrook	15 " " " " " " " "	2730	23 25
	Stitt, Price & Co.	8 bbls. cement.....	2731	10 00
	The Tallmadge Hdw. Co.	3 shovels	2732	1 65
	J. Boude.....	10 days labor	2733	15 00
	Eugene Marsh	Labor on well and trenches.....	2734	13 35
	Wm. Marsh	" " " " " " " "	2735	3 20
	Wm. Rankin.....	26 hrs. labor @ 35c.....	2736	9 10
	Z. N. Barber	2 digging bars, etc	2737	1 25
	A. Earl.....	Appliances for well	2738	9 62
	E. Kelton & Co.	Lumber as per bill	2739	10 32
	C. H. Woodruff.....	13 hrs. carpenter work	2740	3 51
	G. Trowbridge	4 " " " " " " " "	2741	1 11
	W. E. Molby.....	7,000 brick.....	2742	42 00
6	I. N. Abernathy	12 hrs. law lectures	2743	30 00
10	" " " " " " " "	6 " " & expenses..	2744	42 50
	L. M. Bloomfield	1/10 salary, June inst., 1896..	2745	70 00
12	F. C. Clark	" " " " " " " "	2746	90 00
	J. H. Collins	15 lectures law school.....	2747	37 50
	C. Dozier	2 days man & team haul'g stone	2748	6 25
	G. K. Nash	24 lectures law school.....	2749	60 00
	David Evans.....	4 1/2 days work man and team....	2750	11 25
	Geo. Stump.....	3 days & 7 hrs. labor man & team	2751	9 25
	J. Meara	Hauling stone	2752	8 75
	M. Richardson	1 day and 1 hour. man & team..	2753	2 75
13	S. A. Norton	1/10 salary, June inst., 1896.....	2754	120 00
	T. K. Lewis.....	" " " " " " " "	2755	50 00
	J. V. Denney	" " " " " " " "	2756	210 00
	A. M. Bleile	" " " " " " " "	2757	225 00

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1896.				
June 13	A. L. Williston	$\frac{1}{10}$ salary, June inst., 1896.....	2758	\$220 00
	W. L. Graves.....	" "	2759	50 00
	G. W. McCoard	" "	2760	160 00
16	T. J. Godfrey	Exp. m't'g board, June 15-16, '96	2761	16 60
	W. I. Chamberlain.....	" "	2762	14 10
	T. Haas.....	$\frac{1}{10}$ salary, June inst., 1896.....	2763	30 00
18	K. D. Swartzel	" "	2764	80 00
	C. B. Morrey.....	" "	2765	70 00
	"	Supplies anat. and phys.. ..	2766	3 97
	P. Baer.....	5 hrs. work on connections	2767	75
	A. C. Barrows.....	$\frac{1}{10}$ salary, June inst., 1896.....	2768	210 00
	Frank Ray.....	" "	2769	180 00
	J. N. Bradford	" "	2770	180 00
	C. W. Mesloh	" "	2771	100 00
	J. C. Hine	" "	2772	75 00
	C. W. Weick	" "	2773	80 00
	R. O. Kieser	" "	2774	30 00
	E. M. Wilcox	" "	2775	25 00
	Yost & Packard	Services as architects	2776	527 00
	F. L. Landacre	$\frac{1}{10}$ salary, June inst., 1896.....	2777	50 00
	T. E. French.....	" "	2778	90 00
	C. A. Bruce	" "	2779	50 00
	R. M. Hughes.....	" "	2780	30 00
	W. F. Lavery	" "	2781	70 00
	H. Judd	Carpenter work	2782	16 45
	W. McPherson	$\frac{1}{10}$ salary, June inst., 1896.....	2783	180 00
	"	Supplies for laboratory	2784	12 97
	O. A. Davis.....	88 hours labor	2785	12 29
	W. A. Kellerman.....	$\frac{1}{10}$ salary, June inst., 1896.....	2786	225 00
	D. S. Kellicott	" "	2787	225 00
	G. W. Knight.....	" "	2788	225 00
	"	15 lecturers in law school	2789	37 50
	T. F. Hunt.....	$\frac{1}{10}$ salary, June inst., 1896.....	2790	250 00
	"	Expenses visiting agr. bldgs....	2791	75 80
	F. H. Blackburn	36 hrs. labor in elect. labr.....	2792	4 50
	J. R. Spurrier.....	21 " "	2793	3 15
	H. S. Riddle	7 $\frac{1}{2}$ " "	2794	75
	E. S. Aldrich	8 $\frac{1}{2}$ " "	2795	85
	C. W. Burkett.....	200 1-c stamps	2796	2 00
	W. E. Kellicott	Services as quartermaster	2797	5 00
	Freda Detmers	10 hrs. copying.....	2798	1 50
	E. T. Watson	Advertising.....	2799	50 00
	Owen Obetz.....	Services rendered band.....	2800	11 50
	C. B. Guittard.....	42 hours guide	2801	5 25
	Geo. Martin.....	30 " labor.....	2802	3 00
	H. J. Noyes.....	Expenses trip	2803	7 50
	H. S. Riddle	13 hours labor.....	2804	1 30
	E. S. Aldrich.....	15 "	2805	1 50
	Olive Jones.....	$\frac{1}{10}$ salary, June inst., 1896.....	2806	80 00
	H. N. Townsend	" "	2807	30 00
	S. C. Derby	" "	2808	225 00
	H. A. Weber	" "	2809	225 00
	N. W. Lord.....	" "	2810	200 00
	J. A. Bownocker.....	$\frac{1}{10}$ salary, June inst., 1896.....	2811	70 00
	F. J. Combs.....	" "	2812	80 00

STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1896.				
June 18	E. B. Kinhead.....	$\frac{1}{10}$ salary, June inst. 1896.....	2813	\$100 00
19	B. L. Bowen.....	" " ".....	2814	210 00
	W. A. Knight.....	" " ".....	2815	80 00
20	H. M. Ball.....	" " ".....	2816	60 00
	W. F. Hunter.....	" " "..... and		
		2 mos. serv. law faculty, \$80 ..	2817	260 00
	N. H. Brown.....	$\frac{1}{10}$ salary, June inst., 1896.....	2818	80 00
	W. L. Evans.....	" " ".....	2819	30 00
	F. E. Kester.....	" " ".....	2820	25 00
	J. B. Given.....	Janitor work, ind. department..	2821	10 50
	O. A. Davis.....	$7\frac{1}{2}$ hours watchman.....	2822	1 12
	H. C. Lord.....	$\frac{1}{10}$ salary, June inst., 1896.....	2823	120 00
	E. O. Randall.....	" " ".....	2824	55 00
	R. I. Fulton.....	" " ".....	2825	120 00
	Edw. Orton.....	" " ".....	2826	225 00
22	Peters, Burns & Pretzinger	Trip of investigation.....	2827	73 44
	W. K. Morehead.....	Salary, June, 1896.....	2828	50 00
	Jas. H. Canfield.....	$\frac{1}{10}$ salary, June inst., 1896.....	2829	600 00
	W. H. Scott.....	" " ".....	2830	225 00
	W. R. Lazenby.....	" " ".....	2831	225 00
	B. F. Thomas.....	" " ".....	2832	225 00
	R. D. Bohannon.....	" " ".....	2833	225 00
	J. M. Grogg.....	156 hours labor.....	2834	19 50
	C. N. Brown.....	$\frac{1}{10}$ salary, June inst., 1896.....	2835	225 00
	G. B. Kauffman.....	" " ".....	2836	200 00
	F. C. Caldwell.....	" " ".....	2837	120 00
	E. A. Kemmler.....	" " ".....	2838	120 00
	W. D. Gibbs.....	" " ".....	2839	100 00
	D. S. White.....	" " ".....	2840	100 00
	J. R. Taylor.....	" " ".....	2841	75 00
	A. P. Winston.....	" " ".....	2842	70 00
	C. L. Arnold.....	" " ".....	2843	70 00
	C. A. Dye.....	" " ".....	2844	70 00
	Ernest Bradford.....	" " ".....	2845	60 00
	G. H. Calkins.....	" " ".....	2846	25 00
	Alexis Cope.....	Salary, June, 1896.....	2847	187 50
	F. W. Prentiss.....	" " ".....	2848	33 33
	W. C. McCracken.....	" " ".....	2849	100 00
	Chas. Low.....	" " ".....	2850	50 00
	Thos. Boude.....	" " ".....	2851	45 00
	Wm. Whitestone.....	" " ".....	2852	45 00
	Jas. Kelley.....	" " ".....	2853	41 87
	F. B. Brewer.....	" " ".....	2854	40 00
	Wash. Townshend.....	" " ".....	2855	40 00
	J. E. Adams.....	" " ".....	2856	40 00
	J. Conrad.....	" " ".....	2857	40 00
	Jean Blackford.....	" " ".....	2858	50 00
	Edith Cockins.....	" " ".....	2859	40 00
	W. Standley.....	" " ".....	2860	45 00
	B. Le Bay.....	" " ".....	2861	45 00
	E. F. Coddington.....	" " ".....	2862	20 00
	Chapman Mfg. Co.....	Valves.....	2863	796 09
23	S. T. Knight.....	Estimate on tunnel per contract	2864	701 34
	Jos. Braun.....	1st estimate on reservoir.....	2865	768 55
	E. J. Waring, Treas.....	Pneu. pump and air comp.....	2866	340 00

STATEMENT II—Concluded.

Date.	To whom paid.	For what purpose.	No.	Amount.
1896.				
June 23	J. Braun.....	Use of engine.....	2867	\$22 00
24	John Boude.....	33 hours carpenter work	2868	4 95
	F. Charles	Express work.....	2869	50
	Alexis Cope.....	Expenses, trip of investigation..	2870	89 73
	O. W. Aldrich.....	14 lectures law school, @ \$2.50.	2871	35 00
	Edw. Orton, Jr.....	$\frac{1}{10}$ salary, June inst., 1896.....	2872	180 00
	C. R. Wilson	53 hours labor.....	2873	6 63
25	L. A. Frayer.....	Serv. as janitor to June 15, 1896..	2874	10 00
27	C. B. Hine.....	Salary for June, 1896.....	2875	45 00
	E. A. Hitchcock.....	$\frac{1}{10}$ salary, June inst., 1896.....	2876	120 00
	W. R. Beatty.....	Salary for June, 1896	2877	40 00
	Total disbursements.....			\$176,004 89
30	By balance.....			513 96
	Total.....			\$176,518 85

COLUMBUS, OHIO, September 22, 1896.

To the Board of Trustees of the Ohio State University:

The undersigned, the Finance Committee, have, in obedience to your instructions, examined the accounts and vouchers of F. W. Prentiss, the Treasurer of the University, for the period from July 1, 1895, to June 30, 1896, and carefully compared them with the records and vouchers in possession of the Secretary, and hereby certify that the report of the Treasurer submitted to the Board for the period named, which is the last fiscal year, is correct.

T. J. GODFREY,
D. M. MASSIE,
Finance Committee.

STATEMENT III.

LIST OF EMPLOYEES AND COMPENSATION.

In compliance with Section 7 of the *Organic Act*, passed by the Legislature of Ohio, May 1, 1878, which requires the list of "the number of professors, officers, teachers and other employes, and the compensation of each, to be annually reported," I submit the following:

Employees.	Position.	Salary.
James H. Canfield.....	President	\$6,000 00
W. H. Scott.....	Professor of philosophy.....	2,520 00
Edward Orton.....	" geology.....	2,250 00
Wm. R. Lazenby.....	" horticulture and forestry.....	2,250 00
Josiah R. Smith	" Greek language & literature..	2,250 00
Henry A. Weber.....	" agricultural chemistry.....	2,250 00
Benj. F. Thomas	" physics.....	2,250 00
Geo. W. Knight.....	" history and political science..	2,250 00
R. Daniel Bohannon	" mathematics and astronomy.	2,250 00
David S. Kellicott.....	" zoology and entomology	2,250 00
Ernst A. Eggers.....	" German language, literature.	2,250 00
C. Newton Brown.....	" civil engineering	2,250 00
Albert M. Bleile	" anatomy and physiology....	2,250 00
Wm. A. Kellerman.....	" botany	2,250 00
Thos. F. Hunt	" agriculture	2,500 00
Samuel C. Derby.....	" Latin languages, literature..	2,250 00
Nathaniel W. Lord	" mining engineering.....	2,000 00
A. L. Williston.....	Director of industrial department	2,200 00
Albert C. Barrows.....	Asso. prof. Eng. language & literature..	2,100 00
Joseph V. Denney.....	" rhetoric.....	2,100 00
Benj. L. Bowen	" romance languages.....	2,100 00
W. F. Hunter.....	Dean of law faculty	2,000 00
Geo. B. Kauffman.....	Professor of pharmacy.....	2,000 00
Edward Orton, Jr.....	Director school of ceramics.....	1,800 00
Frank A. Ray	Assistant professor mining engineering..	1,800 00
Jos. N. Bradford.....	Associate " drawing.....	1,800 00
Wm. McPherson	" " general chemistry.....	1,800 00
Geo. W. McCoard.....	Assistant " mathematics	1,600 00
Robert I. Fulton.....	Professor elocution and oratory.....	1,200 00
Sidney A. Norton.....	Lecturer in general chemistry	1,200 00
F. C. Caldwell	Assistant professor physics	1,200 00
Henry C. Lord.....	Director observatory.....	1,200 00
E. A. Kemmler	Assistant professor civil engineering.....	1,200 00
E. A. Hitchcock	" " mech'l "	1,200 00
W. D. Gibbs.....	" " agriculture	1,000 00
C. W. Mesloh.....	" " German	1,000 00
David S. White.....	Associate " veterinary medicine	1,000 00
E. B. Kinkead	Professor in school of law.....	1,000 00
Thos. E. French	Assistant in drawing	900 00
F. C. Clarke	" professor of economics	900 00
Olive B. Jones.....	Librarian.....	800 00
Chas. W. Weick.....	Foreman carpenter shop	800 00
William A. Knight.....	" machine shops.....	800 00
Frank J. Combs.....	" forge room.....	800 00
N. H. Brown	Assistant in physics	800 00
Karl D. Swartzel.....	" mathematics	800 00
J. R. Taylor.....	" rhetoric	750 00
Jas. S. Hine.....	" entomology	750 00
L. M. Bloomfield	" agricultural chemistry.....	700 00
C. B. Morrey.....	" anatomy and physiology	700 00

LIST OF EMPLOYEES AND COMPENSATION—Concluded.

Employees.	Position.	Salary.
J. A. Bownocker	Assistant in geology	\$700 00
A. P. Winston	" history	700 00
C. L. Arnold	" mathematics	700 00
C. A. Dye	" pharmacy	700 00
W. F. Lavery	" veterinary medicine	700 00
Ernest Bradford	Storekeeper	600 00
Harry M. Ball	Assistant in veterinary medicine	600 00
W. K. Moorehead	Curator arch. collection	600 00
Thos. H. Lewis	Assistant in drawing	500 00
C. A. Bruce	" French	500 00
F. L. Landacre	" zoology	500 00
W. R. Graves	" rhetoric	500 00
W. L. Evans	Fellow and ass't, general chemistry	300 00
Raymond L. Hughes	" "	300 00
Frank Haas	" metallurgy	300 00
Romeo O. Keiser	" general chemistry	300 00
Harriet Townshend	Assistant in library	300 00
F. E. Kester	Fellow and ass't in physics	250 00
Geo. H. Calkins	" "	250 00
E. M. Wilcox	Assistant in botany	250 00
Alexis Cope	Secretary	2,250 00
F. W. Prentiss	Treasurer	400 00
W. C. McCracken	Chief engineer	1,200 00
Chas. Low	Assistant engineer	600 00
Thos. Boude	Watchman	540 00
William Whitestone	Janitor	540 00
James Kelly	Lawnkeeper	500 00
F. B. Brewer	Janitor	480 00
Wash. Townsend	"	480 00
John E. Adams	"	480 00
John Conrad	"	480 00
C. R. Wilson	Florist	480 00
Jean Blackford	Executive clerk	600 00
Edith D. Cockins	Record clerk	600 00
Wm. Standley	Fireman	540 00
Benj. Le Bay	"	540 00
Lee A. Frayer	Janitor	200 00
E. F. Coddington	"	240 00

NOTE—The members of the law faculty, except the Dean and Mr. Kinkead were paid \$364 per lecture; the amount being ascertained by deducting from the receipts of the school of law the salaries of the Dean and Mr. Kinkead, advertising and other expenses, and dividing the result by the whole number of lectures delivered during the year.

OHIO STATE UNIVERSITY.

Report of Treasurer of said institution to the Secretary of Agriculture and the Secretary of the Interior, of amount received under act of Congress of August 30, 1890, in aid of Colleges of Agriculture and the Mechanic Arts, and of the disbursements thereof, to and including June 30, 1896.

Balance on hand July 1, 1895.....	\$392 43
Date of receipt of installment for 1895-96, July 9, 1895.....Amount...	21,000 00
Total available for year ended June 30, 1896.....	\$21,392 43
Disbursements thereof for and during the year ended June 30, 1896:	
Agriculture, as per Schedule A.....	\$4,294 62
Mechanic Arts, as per Schedule B.....	5,417 81
English Language, as per Schedule C.....	915 00
Mathematical Science, as per Schedule D.....	1,160 00
Natural or Physical Science, as per Schedule E.....	8,917 61
Economic Science, as per Schedule F.....	613 00
Total expended during year.....	\$21,318 04
Balance remaining unexpended July 1, 1896.....	74 39

I hereby certify that the above account is correct and true, and, together with the schedules hereunto attached, truly represents the details of expenditures for the period and by the institution named, and that said expenditures were applied only to instruction in agriculture, the mechanic arts, the English language, and the various branches of mathematical, physical, natural, and economic science, with special reference to their applications in the industries of life and to the facilities for such instruction.

F. W. PRENTISS,

Treasurer.

SCHEDULE A.

Disbursement for instruction in Agriculture and for facilities for such instruction, during the year ended June 30, 1896.

Names of instructors.	Subjects taught for which paid from "Morrill Fund."	Amount.
I. For salaries of instructors:		
A. T. Dempey, Lecturer.....	Special lecture on the Horse	\$10 00
Thos. F. Hunt, Prof. of Agr.....	Agriculture	500 00
W. R. Lazenby, " Hort.....	Horticulture.....	450 00
H. A. Weber, " Ag. Chem.....	Agricultural Chemistry.....	450 00
W. D. Gibbs, Asst. " Agr.....	Agriculture.....	200 00
D. S. White, " Vet. Med.....	Veterinary Medicine.....	100 00
L. M. Bloomfield, As. Pro. Ag. Chem.	Agricultural Chemistry.....	70 00
H. M. Ball, Asst. Vet. Med.....	Veterinary Medicine.....	60 00
C. B. Hine, " Horticulture.....	Horticulture	45 00
Total.....		\$1,885 00

SCHEDULE A—Concluded.

	Amount.
II. For facilities, as follows:	
Wagon	\$175 00
Repairing wagon.....	21 75
Road scrapers.....	137 60
Land grader.....	22 00
Soil boxes, \$16; hen brooders, \$23.77.....	39 77
Grinding tools.....	10 71
Lantern slides.....	6 75
Bolting cloth	1 75
Implements for farm.....	37 94
Poultry cages, \$35.67; 3 pig troughs, \$11.25.....	46 92
Repairing harness, \$9.90; score cards dairy cows, \$15.37.....	25 27
Cows and hogs, \$307.86; mill feed, \$330.76; oats, \$94; grass seed, \$17.68	750 30
<i>Dairy School.</i>	
Milk cans, \$5; dairy machinery, \$96 56; churns, \$23.75.....	125 31
Pasteurizing outfit, \$50; milk, \$689.76; butter tubs, \$10.25.....	750 01
Churn racks, \$19.73; salt, \$2; thermometers, \$7.65.....	29 38
<i>Department of Agricultural Chemistry.</i>	
Chemical supplies, \$128.25; crucibles, \$54.91.....	183 16
<i>Department of Veterinary Medicine.</i>	
Animals for dissection, \$21; large mattress, \$25.....	46 00
Total	\$4,294 62

SCHEDULE B.

Disbursements for instruction in Mechanic Arts and for facilities for such instruction, during the year ended June 30, 1896.

Names of instructors.	Subjects taught for which paid from "Morrill Fund."	Amount.
I. For salaries of instructors:		
C. N. Brown, Prof. Civ. Eng.....	Civil Engineering.....	\$450 00
E. A. Kemmler, Asst. Civ. Eng.....	" ".....	240 00
E. A. Hitchcock, As. Pro. Mech. Eng.	Mech. ".....	120 00
A. L. Williston, Dir. Ind. Dept.....	" ".....	440 00
C. W. Weick, Foreman Carp. Shops	" " & Shop Work..	80 00
W. A. Knight, " Mach. " ..	" " ".....	80 00
F. J. Combs, " Forge Room ..	" " ".....	80 00
N. W. Lord, Prof. Min. Eng.....	Mine ".....	400 00
F. A. Ray, Asst. " ".....	" ".....	360 00
Geo. B. Kauffman, Prof. Phar.....	Pharmacy.....	400 00
C. A. Dye, Asst. in Pharmacy.....	".....	70 00
Jos. N. Bradford, Prof. Drawing.....	Mechanical Drawing.....	360 00
T. E. French, Asst. in ".....	" ".....	180 00
T. K. Lewis, " ".....	" ".....	50 00
Frank Haas, Asst. Min. Eng.....	Mine Engineering.....	30 00
Total.....		\$3,340 00

SCHEDULE B—Continued.

	Amount.
<i>Department of Mechanical Engineering and Shops.</i>	
II. For facilities, as follows:	
Balance, \$40; files, \$12.33; iron tank, \$3.20.....	\$55 53
Lumber, \$226 09; iron, \$94.08; tools, \$68.59.....	388 76
Emery cloth, \$2.25; calorimeter, \$16	18 25
Paints and oils, \$30.67; hardware, 157.96.....	188 63
Machine fittings, \$14.46; shaping machine, \$250.....	264 46
Pulleys, \$63.91; castings, \$50.10.....	114 01
Engine lathe, \$234.75; repairing saws, \$3.50.....	238 25
Planing machine, \$165.33; mounting blue prints, \$17.82.....	183 15
Repairing machinery, \$7.73; speed counters, \$4.71.....	12 44
Hot water meter, \$16 35; saw blades, \$3.75.....	20 10
Oil tank, \$4.25; tool steel, \$49.43; scroll saw, \$30.....	83 68
Time cards, \$3.50; copper oiler, \$2.10.....	5 60
<i>Department of Civil Engineering.</i>	
Steel tapes, \$16.55; instruments, \$250.80	266 85
<i>Department of Drawing.</i>	
Cameras and other optical instruments.....	68 04
Photographic supplies.....	170 06
Total.....	\$5,417 81

SCHEDULE C.

Disbursements for instruction in English Language and for facilities for such instruction, during the year ended June 30, 1896.

Names of instructors.	Subjects taught for which paid from "Morrill Fund."	Amount.
I. For salaries of instructors:		
A. C. Barrows, Prof. Eng. Lit.....	English Language & Literature...	\$420 00
J. V. Denney, Prof. Rhetoric.....	Rhetoric and English Language..	420 00
J. R. Taylor, Asst in ".....	" " ".....	75 00
Total.....		\$915 00

SCHEDULE D.

Disbursements for instruction in Mathematical Science and for facilities for such instruction, during the year ended June 30, 1896.

Names of instructors.	Subjects taught for which paid from "Morrill Fund."	Amount.
I. For salaries of instructors:		
R. D. Bohannon, Prof. Math.....	Mathematics.....	\$450 00
H. C. Lord, Asso. Prof. Math. Astr..	" and Astronomy.....	240 00
G. W. McCoard, Asst. Prof. Math...	" ".....	320 00
Karl D. Swartzel, Asst. ".....	" ".....	80 00
C. L. Arnold, " ".....	" ".....	70 00
Total.....		\$1,160 00

SCHEDULE E.

Disbursements for instruction in Natural or Physical Science and for facilities for such instruction, during the year ended June 30, 1896.

Names of instructors.	Subjects taught for which paid from "Morrill Fund."	Amount.
I. For salaries of instructors:		
Edward Orton, Prof. Geology.....	Geology.....	\$450 00
J. A. Bownocker, Asst. ".....	".....	70 00
W. McPherson, Asso. Prof. Gen. Chem	Applied Chemistry.....	360 00
S. A. Norton, Lecturer ".....	" ".....	120 00
W. L. Evans, Asst. Chemistry.....	" ".....	30 00
Ray M. Hughes, ".....	" ".....	30 00
Romeo O. Keiser, ".....	" ".....	30 00
B. F. Thomas, Prof. Physics.....	Physics.....	450 00
F. C. Caldwell, Asst. Prof. Physics..	" and Electricity.....	240 00
N. H. Brown, " ".....	" ".....	80 00

SCHEDULE E—Continued.

Name of instructors.	Subjects taught for which paid from "Morrill Fund."	Amount.
Geo. H. Calkins, Asst. Prof. Physics	Physics.....	\$25 00
F. E. Kester, " " "	"	25 00
D. S. Kellicott, Prof. Zoo. & Ento..	Zoology and Entomology.....	450 00
J. S. Hine, Asst. " " "	"	75 00
F. L. Landacre, Asst. Zoology.....	"	50 00
A. M. Bleile, Prof. Anat. & Physio..	Physiology	450 00
C. B. Morell, Asst. " " "	"	70 00
W. A. Kellerman, Prof. Botany.....	Botany	450 00
E. M. Wilcox, Asst. Botany.....	"	25 00
Total.....		\$3,480 00

SCHEDULE E—Continued.

	Amount.
II. For facilities, as follows:	
Text-books and reference books.....	\$19 21
<i>Department of General Chemistry.</i>	
Chemical apparatus and stock.....	\$2,318 00
Plat. crucibles, \$184.35; filters, \$37.03; b. p. lids, \$3	244 38
Tapers, \$15; bisque plates, \$4.50; lantern plates, \$43.43; g. i. boxes, \$8	70 93
Mangles, \$37.70; asb. board, \$5.80; stands & racks, \$40; cop. tanks, \$14	99 50
Lab. locks, \$19.02; blast lamp, \$8.50; balances, \$75.10; ovens, \$20	122 62
<i>Department of Physics.</i>	
Slides, \$5.75; instruments, \$11; brushes, \$3.24	19 99
Brass patterns, \$16; belts and knobs, \$10.28; electric wires, \$31.49....	57 77
Stop-watch, \$3; violin bows, \$4.15; oxide zinc, \$11.15; tools, \$4.97....	23 27
Elec. appliances, \$10.69; thermometers, \$13.50; drawing mat, \$5.30...	29 49
Volt meter, \$108; spectroscope & grating, \$265.59; sheet tin, \$10.50...	384 09
Galvanometer, \$53 63; lantern, \$54; barometer, \$15; cov. for insts, \$6.61	129 24
<i>Department of Geology.</i>	
Geological map, \$11.80; mounting mastodon, \$653.03; relief map, \$53	717 83
<i>Department of Anatomy and Physiology.</i>	
Skull with glass dome.....	65 00
<i>Department of Botany.</i>	
Torsion balance, \$51; slides, \$2.40; g. i. box, \$2.....	55 40
Med. plants, \$15.90; glass jars, \$57.54; herbarium 3,000 spec. \$75.....	148 44
Lab. locks, \$10; microscopes, \$262 82; herb. paper, \$57.20; seeds, \$22.50	352 52
Palm seed, \$5; additions to herbarium, \$49.90; flower pots, \$16.03.....	70 93

ANNUAL REPORT

SCHEDULE E—Concluded.

	Amount.
<i>Department of Zoology and Entomology.</i>	
Insect cases, \$43.31; optical parts, \$12.28; instruments, \$82.59.....	\$138 18
Material for dissection, \$42; addition to collections, \$27.25.....	69 25
Microscopes, \$249.75; 2 doz. frogs, \$5; 1½ gross wood boxes, \$12.25.....	267 00
Bee hives, \$4.44; chemical supplies, \$29.79.....	34 23
Total.....	\$8,917 61

SCHEDULE F.

Disbursements for instruction in Economic Science and for facilities for such instruction, during the year ended June 30, 1896.

Names of instructors.	Subjects taught for which paid from "Morrill Fund."	Amount.
I. For salaries of instructors:		
G. W. Knight, Prof. His. & Pol. Sci.	Political Science.....	\$450 00
F. C. Clark, Asst. " " "	Economic "	90 00
A. P. Winston, As. Pro. " "	" "	70 00
Total.....		\$610 00
II. For facilities, as follows:		
Text-books and reference books.....		3 00
Total.....		\$613 00

OHIO STATE UNIVERSITY

Catalogue

1896=1897

The State has no material resources at all comparable with its citizens, and no hope of perpetuity except in the intelligence and integrity of its people.

COLUMBUS
PUBLISHED BY THE UNIVERSITY
JANUARY, 1897

THE UNIVERSITY BULLETINS are issued monthly, at least nine numbers in each year.
Entered at the Postoffice at Columbus, Ohio, as second-class matter.

CALENDAR

1897

JANUARY							FEBRUARY							MARCH						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
...	...	...	...	...	1	2	...	1	2	3	4	5	6	...	1	2	3	4	5	6
3	4	5	6	7	8	9	7	8	9	10	11	12	13	7	8	9	10	11	12	13
10	11	12	13	14	15	16	14	15	16	17	18	19	20	14	15	16	17	18	19	20
17	18	19	20	21	22	23	21	22	23	24	25	26	27	21	22	23	24	25	26	27
²⁴ ₃₁	25	26	27	28	29	30	28	...	...	...	...	...	...	28	29	30	31	...	...	...
APRIL							MAY							JUNE						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
...	...	...	...	...	1	2	...	...	...	...	...	...	1	...	...	1	2	3	4	5
4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12
11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19
18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26
25	26	27	28	29	30	...	²³ ₃₀	²⁴ ₃₁	25	26	27	28	29	27	28	29	30	...	...	...
JULY							AUGUST							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
...	...	...	...	...	1	2	1	2	3	4	5	6	7	...	...	...	1	2	3	4
4	5	6	7	8	9	10	8	9	10	11	12	13	14	5	6	7	8	9	10	11
11	12	13	14	15	16	17	15	16	17	18	19	20	21	12	13	14	15	16	17	18
18	19	20	21	22	23	24	22	23	24	25	26	27	28	19	20	21	22	23	24	25
25	26	27	28	29	30	31	29	30	31	...	...	...	...	26	27	28	29	30	...	...
OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
...	...	...	...	...	1	2	...	1	2	3	4	5	6	...	...	...	1	2	3	4
3	4	5	6	7	8	9	7	8	9	10	11	12	13	5	6	7	8	9	10	11
10	11	12	13	14	15	16	14	15	16	17	18	19	20	12	13	14	15	16	17	18
17	18	19	20	21	22	23	21	22	23	24	25	26	27	19	20	21	22	23	24	25
²⁴ ₃₁	25	26	27	28	29	30	28	29	30	...	...	...	...	26	27	28	29	30	31	...

Days and Dates

1897

Second Term begins.....	Wednesday,	January 6.
First Semester (College of Arts, Philosophy and Science) ends.....	Friday,	February 5.
Second Semester (College of Arts, Philosophy and Science) begins.....	Monday,	February 8.
University Day.....	Saturday,	February 22.
Second Term ends.....	Friday,	March 26.
Third Term begins.....	Monday,	March 29.

Spring Recess.

Meeting of Trustees.....	Wednesday,	April 7.
High School Day.....	Friday,	May 21.
Senior Vacation begins.....	Saturday,	May 22.
Field Day—Athletic Association.....	Saturday,	May 22.
Competitive Drill, Cadet Battalion.....	Saturday,	June 4.
Final Examinations (all Colleges).....	{ Monday to Friday,	{ June 6. June 11.
Baccalaureate Sermon.....	Sunday,	June 13.
Entrance Examinations (8 A. M.).....	{ Monday, Tuesday,	{ June 14. June 15.
Class Day.....	Monday,	June 14.
Meeting of Trustees.....	Tuesday,	June 15.
Alumni Day.....	Tuesday,	June 15.
COMMENCEMENT.....	Wednesday,	June 16.

Summer Vacation.

Entrance Examinations (8 A. M.) and Registration...	{ Monday, Tuesday, Wednesday,	{ September 13. September 14. September 15.
Lectures and Class-work begin (all Colleges).....	Thursday,	September 16.
Meeting of Trustees.....	Wednesday,	September 22.
Thanksgiving Recess.....	{ Thursday, Friday,	{ November 25. November 26.
First Term ends.....	Wednesday,	December 22.

Christmas Vacation.

Board of Trustees

1895=1896

		Term Expires
JOHN B. SCHUELLER	Columbus.....	May 13, 1897.
JAMES E. CAMPBELL.....	Hamilton	" 1898.
WM. I. CHAMBERLAIN.....	Hudson	" 1899.
DAVID M. MASSIE.....	Chillicothe.....	" 1900.
JOHN T. MACK.....	Sandusky	" 1901.
LUCIUS B. WING	Newark	" 1902.
THOMAS J. GODFREY.....	Celina	" 1903.

Officers of the Board

DAVID M. MASSIE.....	<i>President.</i>
JOHN T. MACK.....	<i>Vice President.</i>
ALEXIS COPE	<i>Secretary.</i>
FRED W. PRENTISS	<i>Treasurer.</i>

Committees of the Board

EXECUTIVE	FARM	FINANCE
L. B. WING	WM. I. CHAMBERLAIN	T. J. GODFREY
J. B. SCHUELLER	L. B. WING	D. M. MASSIE
T. J. GODFREY	JOHN T. MACK	JAMES E. CAMPBELL

FACULTY AND COURSES OF STUDY

THOMAS J. GODFREY	WM. I. CHAMBERLAIN	JOHN T. MACK
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Members of the Faculties, and Other Instructors

1895-1896

JAMES HULME CANFIELD.....University Grounds

President

A. B., Williams, 1868; A. M., Williams, 1877; L.L. D., Williams, 1893. Railroad construction, 1868-1872; Practicing Attorney, 1872-'77; Superintendent of Schools, St. Joseph, Michigan, 1874-'77; Professor of History and English Literature, State University of Kansas, 1877-'84; Professor of History and Political Science, State University of Kansas, 1884-'87; Professor of American History and Civics, State University of Kansas, 1887-'91; Chancellor of the University of Nebraska, 1891-'95; present position since 1895.

EDWARD ORTON.....100 Twentieth street

Professor of Geology, and State Geologist

A. B., Hamilton, 1848; Ph. D., Hamilton, 1875; L.L. D., Ohio State University, 1881. Student of Theology, Lane Seminary, 1849; Student at Lawrence Scientific School, Harvard University, 1852; Student, Andover, 1854; Professor of Natural Science, State Normal School, Albany, N. Y., 1856-'59; Principal, Chester Academy, N. Y., 1859-'65; Professor of Natural History, Antioch, 1865-'72; President of Antioch, 1872-'73; President of the Ohio State University, 1873-'81; State Geologist, 1869; present position since 1881.

WILLIAM HENRY SCOTT.....131 Fifteenth avenue

Professor of Philosophy

A. B., Ohio University, 1862; M. A., Ohio University, 1865; L.L. D., Ohio University and Ohio Wesleyan, 1884. Superintendent of Public Schools, Athens, Ohio, 1862-'64; Principal of the Preparatory Department of the Ohio University, 1864-'65; Pastor of Main Street M. E. Church, Chillicothe, Ohio, 1865-'67; Pastor of Town Street M. E. Church, Columbus, Ohio, 1867-'69; Professor of Greek, Ohio University, 1869-'72; President and Professor of Philosophy, Ohio University, 1872-'83; President and Professor of Philosophy, Ohio state University, 1883-'95; present position since 1895.

NATHANIEL WRIGHT LORD.....338 West Eighth avenue

Professor of Mining and Metallurgy, and Dean of the College of Engineering

E. M., Columbia, 1876. Present position since 1878.

SAMUEL CARROLL DERBY.....93 Fifteenth avenue

Professor of Latin, and Dean of the College of Arts, Philosophy and Science

A. B., Harvard, 1866; A. M., Harvard, 1869 (in course), 1877 (by examination). Principal of Schools, Ilion, N. Y., 1866-'67; Assistant in Dixwell's Classical School, Boston, 1867-'70; Professor of Language, Antioch, 1870-'81; President, Antioch, 1877-'81; Student, Latin and History, Harvard, 1876-'77; Student, Latin and History, Johns Hopkins, 1880-'81; Student, Latin, Harvard, 1892-'93; present position since 1881.

WILLIAM RANE LAZENBY.....Tenth avenue near Nell

Professor of Horticulture and Forestry

B. Agr., Cornell, 1874; M. Agr., Iowa Agricultural College, 1887. Instructor, Horticulture and Botany, Cornell, 1874-'77; Assistant Professor of Horticulture, Cornell, 1877-'81; Lecturer, N. Y. State Grange, 1874-'81; Director Ohio U. S. Experiment Station, 1882-'84; Professor of Botany and Horticulture, Ohio State University, 1881-'92; present position since 1892

JOSIAH RENICK SMITH.....239 East State street

Professor of the Greek Language and Literature, and President pro tempore of the University Faculty

A. B., Amherst, 1871; A. M., Amherst, 1883; Principal, Mound Street School, Columbus, 1871-'78; Teacher, Columbus High School, 1873-'76; Assistant Professor of Ancient Languages, Ohio State University, 1876-'81; Student at Leipzig, 1881-'83; present position since 1883.

HENRY ADAM WEBER1342 Forsythe avenue

Professor of Agricultural Chemistry

Graduate of Polytechnic School, Kaiserslautern, 1866; Student of Chemistry under Von Leibig and Reischner, and of Mineralogy under Von Kobell, Munich, 1866-'68; Ph. D., Ohio State University, 1879. Ohio Geological Survey, Chemical Department, 1869-'74; Professor of General Chemistry and Mineralogy, Illinois State University, 1874-'82; present position since 1884.

BENJAMIN FRANKLIN THOMASUniversity Grounds

Professor of Physics, and State Sealer of Weights and Measures

B. Sc., Ripon, 1874; M. Sc., Ripon, 1877; Ph. D., Stevens Institute, 1880. Instructor in Mathematics and Physics, Carleton College, Northfield, Minnesota, 1876-'79; Professor of Physics, University of Missouri, 1880-'85; engaged in electrical test work at the International Electrical Exhibition at Philadelphia, 1884, and at the World's Columbian Exhibition, Chicago, 1893; present position since 1885.

GEORGE WELLS KNIGHTUniversity Grounds

Professor of History and Political Science, and of Constitutional Law

A. B., University of Michigan, 1878; A. M., University of Michigan, 1883; Ph. D., University of Michigan, 1884. Student, Law, University of Michigan, 1878-'79; Principal of High School, Lansing, Michigan, 1879-'81; Student, History and Political Science, University of Michigan, 1882-'84; Instructor in History, Ann Arbor High School, 1883-'85; Professor of History and English Literature, Ohio State University, 1885-'87; Student at Universities of Halle, Berlin, and Freiburg, 1889-'90; present position since 1887.

ROSSER DANIEL BOHANNANSixteenth and Indianola avenues

Professor of Mathematics

B. Sc., C. E., E. M., University of Virginia, 1876. Student of Mathematics and Physics, Cambridge, England, 1880-'82; Göttingen, 1882-'83; Teacher of Mathematics and Latin, Suffolk Collegiate Institute, Virginia, 1876-'77; Teacher of Mathematics and English, New York Latin School, New York City, 1877-'78; Professor of Mathematics and Natural Science, Emory and Henry College, 1878-'80; Acting Professor of Mathematics, University of Virginia, 1883-'84; Assistant Professor in Mathematics and Physics, University of Virginia, 1884-'87; Professor of Mathematics and Astronomy, Ohio State University, 1887-'95; present position since 1895.

DAVID SIMONS KELLICOTT1332 Highland street

Professor of Zoology and Entomology

B. Sc., University of Syracuse, 1869; Ph. B., Syracuse, 1874; Ph. D., Syracuse, 1881. Teacher of Mathematics, Keystone State Normal School, 1870-'71; Teacher of Natural Sciences, Buffalo State Normal School, 1873-'88; Teacher of Botany, College of Pharmacy, Buffalo, 1886-'88; Professor of Zoology and Comparative Anatomy, Ohio State University, 1888-'91; present position since 1891.

C. NEWTON BROWN1343 Forsythe avenue

Professor of Civil Engineering

C. E., Miami, 1886. Resident Engineer of the Ironton Extension of the Pittsburgh, Cincinnati, Chicago & St. Louis R. R., 1881; Ohio Geological Survey, 1882; Assistant in Mathematics and Civil Engineering, Ohio State University, 1883-'85; present position since 1885.

ERNST AUGUST EGGERSUniversity Grounds

Professor of German Language and Literature

Student in Gymnasium at Hanover, the Sorbonne. College de France; at Michigan State Normal School. Instructor in German in the High Schools of Wisconsin and Michigan for ten years; Assistant in German, Ohio State University, 1886-'88; Assistant Professor of German, same institution, 1888-'90; present position since 1890.

ALBERT MARTIN BLEILE218 King avenue

Professor of Anatomy and Physiology

M. D., Starling Medical College, 1876. Student, Vienna, Chemistry and Physiology, 1876-'77; Student, Leipzig, Physiology, 1877-'78; Student, Paris, Anatomy and Histology, 1878-'79; Lecturer on Experimental Physiology, Starling Medical College, 1879; Professor of Physiology, Starling Medical College, 1884; present position since 1891.

WILLIAM ASHBROOK KELLERMAN 175 Eleventh avenue

Professor of Botany

B. Sc., Cornell, 1874; Ph. D., Zurich, 1881. Professor of Natural Science, Wisconsin State Normal School, 1874-'79; Professor of Botany and Horticulture, Kentucky State College, 1881-'82; Professor of Botany and Zoology, Kansas State Agricultural College, 1883-'87; Professor of Botany, Kansas State Agricultural College, 1888-'91; Botanist, Kansas State Board of Agriculture, 1883-'91; Founder and first Editor of *Journal of Mycology*; present position since 1891.

THOMAS FORSYTH HUNT 188 West Tenth avenue

Professor of Agriculture, and Dean of the College of Agriculture and Domestic Science

B. Sc., University of Illinois, 1884; M. Sc., University of Illinois, 1892. Assistant to Illinois State Entomologist, 1885-'86; Assistant in Agriculture, University of Illinois, 1886-'88; Assistant Agriculturist, Illinois Experiment Station, 1888-'91; Professor of Agriculture, Pennsylvania State College, 1891-'92; present position since 1892.

GEORGE BEECHER KAUFFMAN University Grounds

Professor of Pharmacy, and Dean of the College of Pharmacy

B. Sc., Ohio Wesleyan University, 1877; Pharm. D., Scio, 1894. Present position since 1885.

BENJAMIN LESTER BOWEN 46 Jefferson avenue

Professor of Romance Languages and Literatures

A. B., University of Rochester, 1881; Ph. D., Johns Hopkins University, 1888. Professor of Languages, New Windsor College, Maryland, 1882-'83; Graduate Student and Assistant in French, Johns Hopkins University, 1884-'86, and 1887-'88; Student at the Universities of Paris, Bonn, Rome and Madrid, 1885-'86 and 1886-'87; Professor of French and Latin, Bowdoin College, 1888-'89; Acting Associate Professor of French Language and Literature, Ohio State University, 1889-'90; Associate Professor of Romance Languages and Literatures, Ohio State University, 1890-'91; present position since 1894.

JOSEPH VILLIERS DENNEY 186 West Ninth avenue

Professor of Rhetoric and the English Language, and Secretary of the University Faculty

A. B., University of Michigan, 1885. Journalist, 1885-'88; Principal of the Aurora (Illinois) High School, 1885-'90; Instructor in English and Graduate Student, University of Michigan, 1890-'91; Instructor in Greek and Latin, Princeton (N. J.) Summer School, 1892; Associate Professor of Rhetoric, Ohio State University, 1891-'95; present position since 1895.

ARTHUR LYMAN WILLISTON 652 Franklin avenue

Director of the Industrial Department

S. B., Massachusetts Institute of Technology, 1889. Railroad Engineering, two years; Instructor in Thermodynamics and Steam Engineering, Massachusetts Institute of Technology, 1891-'92; present position since 1893.

ALLEN CAMPBELL BARROWS 15th and Indianola avenues

Professor of English Literature

A. B., Western Reserve, 1861; A. M., Western Reserve, 1866; D. D., Iowa College, 1889. Teacher, Latin and Greek, Phillips Academy, 1865-'66; Professor of Physics, Western Reserve, 1866-'70; Professor of Latin and English Literature, Western Reserve, 1870-'71; Professor of English Literature and History, Iowa Agricultural College, 1887-'94; present position since 1894.

EDWARD ORTON, JR. The Normandie

Director of the Department of Clay-Working and Ceramics

E. M., Ohio State University, 1884. Assistant to Ohio Geological Survey, 1882; Chemist for Columbus and Hocking Coal and Iron Company, 1885-'86; Superintendent of Bessie Furnace, 1887-'88; Chemist, Iron Works, Homestead, Pennsylvania, 1891; present position since 1894.

JOHN THOMAS MARTIN 1194 Fair avenue

Professor of Military Science and Tactics

Graduated from West Point, with rank of Second Lieutenant, U. S. Artillery, 1889. Appointed to present position, Commandant of University Battalion, September, 1895; promoted to rank of First Lieutenant, 5th Artillery, U. S. A., 1896.

ROBERT IRVING FULTON.....Delaware, Ohio

Professor of Elocution and Oratory

A. M., Ohio Wesleyan University, 1887. Law Student, University of Virginia, 1877; Superintendent Public Schools, Berlin, Ill., 1877-'78; Associate Principal, School of Oratory, Kansas City Mo., 1878-'81, and Director of same, 1884-'92; Instructor, Elocution, Ohio Wesleyan, Missouri State and Kentucky State Universities, 1882-'90; Assistant Professor, English Department, Kansas State University, 1890-'91; Professor of Elocution and Oratory, Ohio Wesleyan University since 1891; Lecturer, Elocution and Oratory, Ohio State University, 1892-'95; present position since 1895.

WILLIAM FORREST HUNTER.....1032 Bryden Road; 18 Board of Trade

Dean of the College of Law; Professor of the Law of Sales, Bailments, Evidence, Wills, Construction of Contracts, Law of Corporations; Judge of Moot Courts

Admitted to the Bar in 1861; Student, University of Michigan Law School; practicing attorney since 1866; present position since 1892.

JOSEPH NELSON BRADFORD.....54 West Tenth avenue

Associate Professor of Drawing

M. E., Ohio State University, 1883. Draftsman, Ohio Geological Survey, 1882; Machinist and Draftsman, Pittsburg, Cincinnati and St. Louis Railroad, 1883-'85; Assistant in Mechanical Engineering and Drawing, Ohio State University, 1885-'90; Assistant Professor of Drawing, Ohio State University, 1890-'93. Present position since 1893.

WILLIAM McPHERSON, JrThe Normandie

Associate Professor of General Chemistry

B. Sc., Ohio State University, 1887; M. Sc., Ohio State University, 1890; D. Sc., Ohio State University, 1895. Instructor in Chemistry and Physics, Toledo High School, 1887-'89; Instructor in Chemistry, Toledo High School and Manual Training School, 1889-'92; Assistant in Chemistry, Ohio State University, 1892-'93; Assistant Professor in Chemistry, Ohio State University, 1893-'95; present position since 1895.

HENRY CURWEN LORD.....186 West Ninth avenue

Director of the Emerson McMillin Observatory and Associate Professor of Astronomy

B. Sc., University of Wisconsin, 1882. Assistant in Washburn Observatory, University of Wisconsin; with Thompson-Houston Electric Company, 1889; Assistant in Mathematics and Astronomy, Ohio State University, 1891-'94. Present position since 1895.

DAVID STUART WHITE317 King avenue

Associate Professor of Veterinary Medicine and Dean of the College of Veterinary Medicine

D. V. S., Ohio State University, 1890. Student, Royal Veterinary Schools of Hanover, Berlin and Dresden, 1890-'91; at Imperial Veterinary Institute of Vienna, 1891-'93; Assistant in Veterinary Medicine, Ohio State University, 1893. Present position since 1895.

OLIVE B. JONES.....53 Eleventh avenue

Librarian

Assistant Librarian, 1887. Student, Library work, under Mrs. Dixon, Pennison; Student, Librarians' Summer School, Amherst, under Mr. Fletcher; Student, Chicago University, under Mrs. Dixon. Present position since 1894.

GEORGE KILBON NASH.....43 Jefferson avenue; Wyandotte Building

Professor of the Law of Torts

A. B., Oberlin. Admitted to practice, 1867; Prosecuting Attorney of Franklin County; Commissioner Supreme Court of Ohio; Attorney General of Ohio. Present position since 1891.

DAVID FRANKLIN PUGH.....1320 Highland street; Court House

Professor of Equity Jurisprudence

Member of West Virginia Constitutional Convention, 1872; Member of Legislature, West Virginia, 1874-'75; Prosecuting Attorney, Tyler County, West Virginia, 1870-'80; Common Pleas Judge, Franklin County, Ohio, since 1887. Present position since 1891.

I. N. ABERNATHY.....Circleville, Ohio
Professor of Criminal Law, the Law of Extraordinary Legal Remedies, and Circuit and Supreme Court Practice

A. B., Ohio Wesleyan, 1866; A. M., Ohio Wesleyan, 1869. Principal of Public Schools, Mt. Sterling, Ohio, 1867-'69; admitted to practice, 1868; Prosecuting Attorney, Pickaway County, 1872-'76; Judge Common Pleas Court, 1890-'95. Present position since 1892.

JAMES HENRY COLLINS.....57 Lexington avenue; Ruggery Building
Professor of Federal Practice

In practice for thirty years. Present position since 1891.

ORLANDO W. ALDRICH.....101 North High street
Professor of the Law of Real Property, Office Practice, Conveyancing

B. A., Illinois Wesleyan, 1869; M. A., Illinois Wesleyan, 1872; Ph. D., Illinois Wesleyan, 1875; LL. B., Albert University, Belleville, Ontario, 1878; LL. D., same institution, 1878; D. C. L., Illinois Wesleyan, 1881. Professor, Illinois Wesleyan. Law Department, 1876-'81; Professor of Philosophy, Illinois Wesleyan, 1877-'78. Present position since 1891.

PAUL JONES.....1194 Bryden Road; 20 Hayden Building
Professor of the Law of Contracts

B. A., Ohio State University, 1880. Present position since 1891.

EMILIUS OVIATT RANDALL.....1025 Oak street; Supreme Court Room
Professor of Commercial Law, and Study of Cases

Ph. B., Cornell, 1874; LL. B., LL. M., Ohio State University, 1892. Admitted to practice, 1890; Secretary Ohio State Historical Society; Reporter Supreme Court of Ohio. Present position since 1893.

EDGAR BENTON KINKEAD.....Wyandotte avenue; 5 and 6 Columbia Block
Professor of Elementary Law, the Law of Domestic Relations, Probate Practice, Trials

Author of "Code Pleading"; Editor of *Ohio Law Journal*. Present position since 1895.

SIDNEY AUGUSTUS NORTON.....363 East Town street
Lecturer in General Chemistry

A. B., Union, 1856; A. M., Union, 1859; M. D., Miami Medical College, 1867; Ph. D., Kenyon, 1878; LL. D., Wooster, 1881. Student at Bonn, Leipsic, Heidelberg; Teacher, Poughkeepsie Collegiate Academy, 1856; Tutor, Union, 1857; Principal, Hamilton (Ohio) High School, 1858; Instructor of Natural Science, Cleveland High Schools, 1857-'66; Teacher of Natural Science, Mt. Auburn, 1866-'72; Professor of Chemistry, Miami, 1867-'72; Acting Professor of Physics, Union, 1872-'73; Professor of Chemistry, Ohio State University, 1873-'95; present position since 1895.

GEORGE WASHINGTON MCCOARD.....319 West Fifth avenue
Assistant Professor of Mathematics

B. A., Bethany, West Virginia, 1873; M. A., Bethany, 1882. Principal of Oakdale Classical Normal Institute, Allegheny County, Pennsylvania, 1873-'74; Private Tutor in Cleveland, Ohio, 1874-'80; Principal of Public Schools, Irving Park, Chicago, 1880-'81; Teacher of Latin and Mathematics, Columbus High School, 1881-'82; Assistant in Mathematics and Latin, Ohio State University, 1882-'87. Present position since 1887.

* WILBUR HENRY SIEBERT

Assistant Professor of History

A. B., Ohio State University, 1888; A. B. (with honorable mention), Harvard University, 1889; M. A., Harvard, 1890. Student, Freiburg and Berlin, 1890-'91; Student, Harvard, 1895; Assistant in History and Political Science, 1891-'93; Assistant Professor of History, 1893-'95.

FRANCIS CARY CALDWELL.....100 West Eighth avenue
Assistant Professor of Physics

A. B., Cornell, 1890; M. E., Cornell, 1891. With Thompson-Houston Works, Lynn, Massachusetts, 1891-'92; Student at the National Polytechnic, Zurich, 1892-'93. Present position since 1893.

* Absent on leave, 1895-'96.

- FRANK ARNOLD RAY.....The Marion
Assistant Professor of Mine Engineering
 M. E., Ohio State University, 1877. Since then engaged in various lines of work coming within the range of Mine Engineering. Present position since 1895.
- EMBURY ASBURY HITCHCOCK.....1386 Neil avenue
Assistant Professor of Mechanical Engineering
 M. E., Cornell, 1890. Straightline Engine Company, Syracuse, N. Y., 1889; Corliss Steam Engine Company, Providence, R. I., 1890-'93; Assistant in Mechanical Engineering, Ohio State University, 1893-'95. Present position since 1895.
- *CHARLES WALTER MESLOH.....9 Lyndon Block, Fifth and High street
Assistant Professor of German
 A. B., Ohio State University, 1889; M. A., Ohio State University, 1895. Student in the University of Chicago, 1894; Teacher of German, Ohio State University, since graduation.
- EDWARD ALLEN KEMMLER.....895 South High street
Assistant Professor of Civil Engineering
 C. E., Ohio State University, 1885. Assistant, Civil Engineering, Ohio State University, 1891-'95. Present position since 1895.
- WILLIAM DAVID GIBBS.....Neil and Tenth avenues
Assistant Professor of Agriculture
 B. Sc., University of Illinois, 1893. Fellowship in Agriculture, University of Illinois, 1893-'94; Post-graduate work, University of Illinois and University of Wisconsin, 1895; Expert Assistant in Division of Agricultural Soils of the United States Department of Agriculture, summer of 1895; Teacher of Bacteriology, University of Illinois, fall term, 1893; Assistant in Animal Husbandry, University of Illinois, winter term, 1894; Assistant in Agriculture, Ohio State University, spring and fall terms, 1895. Present position since 1895.
- H. J. NOYES.....Richland City, Wisconsin
Assistant Professor of Dairy Husbandry
 President National Butter and Cheese Makers' Association, 1891; Chief Instructor, Wisconsin Dairy School, 1892-'94; Instructor, Wisconsin Dairymen's Association, 1894. Present position since 1895.
- FREDERICK CONVERSE CLARK.....15th and Indianola avenues
Acting Assistant Professor of History and Economics
 A. B., University of Michigan, 1887; A. M., University of Michigan, 1888; Ph. D., University of Michigan, 1891. Student at Halle and Berlin, 1893-'95; Instructor in History and Economic, Ann Arbor High School, 1888-'92; Assistant Professor of Political Economy, Stanford University, 1891-'93. Present position since 1893.
- WARREN KING MOOREHEAD.....1080 Madison avenue
Curator of the Archaeological Collection
 As-istant, Smithsonian Institution, 1888-'89; Assistant in Anthropology, World's Fair, 1891-'93.
- *JOSEPH RUSSELL TAYLOR.....54 West Tenth avenue
Assistant in Rhetoric
 B. A., Ohio State University, 1887. Taught in Township Schools, Madison County, Ohio, 1887-'88; Assistant in Drawing, Ohio State University, 1889-'94. Present position since 1894.
- CHARLES LINCOLN ARNOLD.....239 West Tenth avenue
Assistant in Mathematics
 B. Sc., Ohio State University, 1890; M. Sc., Ohio State University, 1894. Post-graduate Student, University of Chicago and Ohio State University, 1894-'95. Present position since 1890.

* Absent on leave, 1896-'97.

- CHARLES BRADFIELD MORREY.....146 King avenue
Assistant in Anatomy and Physiology
 B. A., Ohio State University, 1890; Post-graduate Student, Ohio State University, 1890-'91; M. D., Starling Medical College, 1896. Assistant in Latin, Ohio State University, 1890-'92; Assistant in Physiology, Ohio State University, 1892-'95. Present position since 1895.
- CLAIR ALBERT DYE..... 169 King avenue
Assistant in Pharmacy
 G Ph., Ohio State University, 1891. Post-graduate Student in Chemistry and Pharmacy, Ohio State University; Assistant in Chemistry and Pharmacy, 1890-'91. Present position since 1891.
- LYOYD MORRIS BLOOMFIELD1234 Harrison avenue
Assistant in Agricultural Chemistry
 B. Ag., Ohio State University, 1891. Present position since graduation.
- FRANK J. COMBS1185 Franklin avenue
Assistant in the Industrial Department and Foreman of the Forge Room
 Present position since 1890.
- CHARLES WILLIAM WEICK.....134 West Eighth avenue
Assistant in the Industrial Department and Foreman of the Carpenter and Pattern Shops
 Present position since 1893.
- WILLIAM ABNER KNIGHT206 West Lane avenue
Assistant in the Industrial Department and Foreman of the Machine Shops
 Present position since 1893.
- THOMAS EWING FRENCH.....1458 Worthington street
Assistant in Drawing
 M. E., Ohio State University, 1895. Assistant in Drawing Department three years preceding graduation; Draftsman, The Smith-Vaile Company, Dayton, 1888-'90; Instructor in Mechanical Drawing, Y. M. C. A., Dayton, 1888-'91; Chief Draftsman, The Smith-Vaile Company, Dayton, 1891. Present position since 1891.
- NEWTON HENRY BROWN.....114 Norwich avenue
Assistant in Physics
 M. E. (in E. E.), Ohio State University, 1893. Present position since graduation.
- HARRIET TOWNSHEND.....52 West Eleventh avenue
Assistant Librarian
 Present position since 1894.
- KARL DALE SWARTZEL..... 57 West Frambes avenue
Assistant in Mathematics
 B. Sc., Ohio State University, 1893; M. Sc., Ohio State University, 1894. Fellow and Assistant in Mathematics, Ohio State University, 1894-'95. Present position since 1895.
- THOMAS KENYON LEWIS32 West Ninth avenue
Assistant in Drawing
 B. Sc., Ohio State University, 1894. Graduate Student, Ohio State University, 1894-'95. Present position since graduation.
- CHARLES A. BRUCE.....284 West Tenth avenue
Assistant in French and Latin
 B. A., Ohio State University, 1895. Student of French, Amherst, 1893. Present position since graduation.

- JOHN ADAMS BOWNOCKER.....Clark Place and High street
Assistant in Geology
 B. Sc., Ohio State University, 1889. Principal of High School, Martin's Ferry, 1889-'92; Fellow in Geology, University of Chicago, 1892-'94; Graduate Student, Yale University, 1894-'95; Assistant, Geological Survey of Ohio, 1892; Assistant, Geological Survey of New Jersey, 1893. Present position since 1895.
- EDWIN MEAD WILCOX154 West Woodruff avenue
Assistant in Botany
 B. Sc., Ohio State University, 1896. Present position since 1894.
- FRANCIS LEROY LANDACRE.....70 West Tenth avenue
Assistant in Zoology and Entomology
 B. A., Ohio State University, 1895. Present position since graduation.
- JAMES STEWART HINE.....117 King avenue
Assistant in Entomology
 B. Sc. (H. and F.), Ohio State University, 1893. Student in Entomology, Cornell, 1895. Present position since 1895.
- MAUD DOROTHY JEFFREY.....65 West Eleventh avenue
Assistant Librarian
 B. Ph., Ohio State University, 1895. Student of Library Economy, 1895-'96. Present position since September, 1896.
- AMBROSE PARE WINSTON35 West Tenth avenue
Assistant in History and Political Science
 A. B., University of Wisconsin, 1887. Student, Berlin and Leipzig, 1889-'90; Student, Johns Hopkins University, 1891-'92; Student, University of Chicago, 1892-'93, 1894-'95; Instructor in Latin, Racine, Wisconsin, High School, 1887-'88; Principal Public School, Pueblo, Colorado, 1888-'89; Instructor in History, University of Illinois, 1893-'94. Present position since 1895.
- ROMEO ORPHEUS KEISER.....122 King avenue
Laboratory Assistant in General Chemistry
 B. Sc., Ohio State University, 1892; G. Ph., Ohio State University, 1896. Student in Chemistry and Histology, and present position since 1895.
- HARRY McFADDEN BALL.....683 North High street
Assistant in Veterinary Medicine
 D. V. S., American Veterinary College, 1888. Present position since 1895.
- FRANCIS BAIL PEARSON.....458 West Fifth avenue
Assistant in Latin
 A. B., Wooster, 1885; A. M., Wooster, 1888. Two years Post-Graduate Student, Wooster; Teacher for six years in McAllister College, St. Paul, Minnesota; Teacher in Columbus High School for two years. Present position since 1895.
- WILLIAM FINLEY LAVERY.....1700 Neil avenue
Assistant in Veterinary Medicine
 D. V. M., Ohio State University, 1890. Veterinary practitioner, 1892-'96. Present position since 1896.
- GERTRUDE STOWELL KELLCOTT.....1332 Highland street
Assistant Librarian
 Student (irregular) Ohio State University, 1888-'95. Student of Library Economy, 1895-'96. Present position since November, 1896.

- FRANK HAAS.....233 Eleventh avenue
Fellow, and Laboratory Assistant in Metallurgy
 C. E., Ohio State University, 1895. E. M., Ohio State University, 1896. Present position since graduation.
- WILLIAM LLOYD EVANS.....189 Jefferson avenue
Fellow, and Laboratory Assistant in General Chemistry
 B. Sc., Ohio State University, 1892; M. Sc., Ohio State University, 1896. Student in Organic Chemistry, Ohio State University, January to June, 1895. Present position since 1895.
- RAYMOND MOLLYNEAUX HUGHES.....135 King avenue
Fellow, and Laboratory Assistant in General Chemistry
 B. A., Miami, 1893. Student of Chemistry, Chicago University, 1894; Student of Chemistry, Miami, 1894-'95; Teacher of Chemistry and Physics, High School, Hamilton, Ohio, 1893-'95. Present position since 1895.
- FREDERICK EDWARD KESTER.....1473 Neil avenue
Fellow, and Laboratory Assistant in Physics
 M. E. (in E. E.), Ohio State University, 1895. Present position since graduation.
- GEORGE HERBERT CALKINS.....750½ East Long street
Fellow, and Assistant in Physics
 M. E., Ohio State University, 1895. Present position since graduation.
- WILLIAM LUCIUS GRAVES.....878 Dennison avenue
Fellow, and Assistant in Rhetoric and English Language
 B. A., Ohio State University, 1893. Principal, High School, Coshocton, 1894-'95. Present position since January, 1896.
- CHARLES WILLIAM BURKETT.....1556 Neil avenue
Foreman of State Farm
 B. Sc., (Ag.) Ohio State University, 1895. Present position since graduation.

CHANGES FOR 1896-'97

WITHDRAWN

Professor I. N. Abernathy, Professor O. W. Adrich, Assistant Professor Edward A. Kemmler, Assistant L. M. Bloomfield, Assistant F. J. Combs, Assistant N. H. Brown, Assistant E. M. Wilcox, Assistant A. P. Winston, Assistant F. B. Pearson, Laboratory Assistant R. O. Keiser, Laboratory Assistant G. H. Calkins.

APPOINTED

WILLIAM THOMAS MAGRUDER.....The Marion
Professor of Mechanical Engineering
 M. E., Steven's Institute of Technology, 1881. Student in Machine Design and Shop Practice, Taunton, Mass., 1881-'86, and in Chemistry and Mathematics, etc., John Hopkins University, 1886-'87. Professor of Mechanical Engineering (practical and theoretical), Vanderbilt University, 1887-'96. Present position since September, 1895.

JOHN PANCOAST GORDY.....The Marion

Professor of Pedagogy

A. B., Wesleyan University, 1878; A. M., Wesleyan University, 1881; Ph. D., University of Leipsic, 1884. Student in Philosophy at Leipsic, 1883-'84; Student in Philosophy at Johns Hopkins University, 1886; Instructor in Philosophy, Wesleyan University, 1878-'83; Assistant in Revision of Webster's Dictionary, 1884-'85; Professor of Philosophy and Pedagogy, Ohio University, Athens, 1886-'96; Translator of the first two volumes of Kuno Fischer's History of Modern Philosophy; Editor of the Journal of Pedagogy, 1887-'90; Author of "Hume as a Skeptic," "Lessons in Psychology," "The Training of Teachers in the United States," "History of Political Parties in the United States." Present position since September, 1896.

WILLIAM HERBERT PAGE.....527 East Broad street. 27 Board of Trade

Professor of Elementary Law

B. A., Yale, 1889; LL. B., Ohio State University, 1892; LL. M., same institution, 1894. Instructor in Central High School, Columbus, Ohio, 1889-'96. Present position since September, 1896.

FAXON FRANKLIN DUANE ALBERY.....119½ S. High street. 37 Lexington avenue

Professor of the Law of Insurance

Student of Law and Philosophy in the University of Berlin and the University of Leipsic. Present position since September, 1896.

WILLIAM THOMAS SPEAR.....Supreme Court Room. 82 Hoffman avenue

Lecturer on Circuit and Supreme Court Practice and Extraordinary Remedies

LL. B., Harvard Law School, 1859. Began practice, 1859. City Solicitor, Warren, Ohio, 1870; Prosecuting Attorney, Trumbull County; Judge of Court of Common Pleas, 1878; Judge of Supreme Court, 1885. Present position since 1896.

HERMAN VANDENBURG AMES.....81 Fifteenth avenue

Assistant Professor of History

A. B., Amherst College, 1888; A. M., Harvard, 1890; Ph. D., Harvard, 1891. Student in History and Political Science, School of Political Science, Columbia, 1888-'89, and at Harvard University, 1889-'91. Fellow in Constitutional Law, Harvard, 1890-'91; Instructor in History, University of Michigan, 1891-'93; Acting Assistant Professor of History, University of Michigan, 1893-'94; student at Universities of Leipsic and Heidelberg, 1891-'95; present position since September, 1896.

ARTHUR WINFRED HODGMAN.....161 West Ninth avenue

Assistant in Greek and Latin

A. B., Harvard, 1890; A. M., Harvard, 1892; Ph. D., (Classical Philology) Harvard, 1896. Student in Graduate School, Harvard, Classical Philology, 1892-'96. Instructor in Preparatory Schools, Quincy, Duxbury, Mass., 1890-'92. Present position since September, 1896.

JAMES ELLSWORTH BOYD.....25 Maynard avenue

Assistant Professor of Physics

B. Sc., Ohio State University, 1891; M. Sc., Cornell, 1896. Student in Physics and Mathematics, Ohio State University, 1893-'95; Student in Experimental and Theoretical Physics, Cornell, 1895-'96; also student in Sibley College of Mechanic Arts, Cornell, summer of 1895. Assistant in Physics, Ohio State University, 1891-'95; held scholarship in Physics, Cornell, 1895. Present position since September, 1896.

CHRISTOPHER ELIAS SHERMAN.....244 Twentieth street

Assistant in Civil Engineering

C. E., Ohio State University, 1894. Engaged in Civil Engineering in Ohio, Tennessee, Virginia, North Carolina and Arizona for three years, during college course; also engaged in railroad, geological and governmental engineering work. Present position since September, 1896.

BERTHOLD AUGUST EISENLOHR.....103 West Eleventh avenue

Assistant in German

Student at Ohio State University (irregular) from February 1880-'85. Instructor in German and Assistant Director of Chorus Classes, Ft. Wayne Conservatory of Music, 1839; Teacher of German, Nelsonville, Ohio; Teacher of German and Physics, Portsmouth, Ohio, High School, 1893-'95. Present position since September, 1896.

WILLIAM FLOYD JULIEN.....240 West Eighth avenue

Assistant in Botany

B. Sc., Purdue, 1896. Present position since September, 1896.

CHARLES CONRAAD SLEFFEL.....147 West First avenue

Assistant in Industrial Department and Foreman of the Forge Room

Sixteen years experience in work-shops. Present position since September, 1896.

ALBERT EARL VINSON.....Cor. Neil and Tenth avenues

Assistant in Agricultural Chemistry

Instructor in Chemistry, Y. M. C. A., Dayton, Ohio, 1895. Present position since September, 1896.

EDWIN F. CODDINGTON.....169 Eleventh avenue

Fellow, and Assistant in Astronomy

C. E., Ohio State University, 1896. Student in special work in Astronomy at Emerson McMillin Observatory, summer of 1896. Present position since September, 1896.

ARLINGTON C. HARVEY.....Cor. King avenue and High street

Fellow, and Assistant in Rhetoric

B. Ph., Ohio State University, 1896. Student in Department of English and Rhetoric, Ohio State University. Present position since September, 1896.

CHARLES WILLIAM FOULK.....41 Eleventh avenue

Assistant in General Chemistry

B. A., Ohio State University, 1894. Present position since September, 1896.

CHANGES

NATHANIEL W. LORD, 1895-'96—Professor of Mining and Metallurgy, and Dean of the College of Engineering

1896-'97—Professor of Mineralogy and Metallurgy, and Dean of the College of Engineering

GEORGE K. NASH, 1895-'96—Professor of the Law of Torts

1896-'97—Lecturer on the Law of Negligence

DAVID F. PUGH, 1895-'96—Professor of Equity Jurisprudence

1896-'97—Professor of Equity Jurisprudence and of the Law of Real Property

JAMES H. COLLINS 1895-'96—Professor of Federal Practice

1896-'97—Lecturer on Federal Practice

EMILIUS O. RANDALL, 1895-'96—Professor of Commercial Law, and Study of Cases

1896-'97—Professor of Commercial Law

EDGAR B. KINKEAD, 1895-'96—Professor of Elementary Law, the Law of Domestic Relations, Probate Practice, Trial

1896-'97—Professor of the Law of Pleading and Practice, Torts, and of Criminal Law

- FRANK A. RAY, 1895-'96—Assistant Professor of Mine Engineering
1896-'97—Associate Professor of Mine Engineering
- FRANCIS C. CALDWELL, 1895-'96—Assistant Professor of Physics
1896-'97—Assistant Professor of Electrical Engineering
- EMBURY A. HITCHCOCK, 1895-'96—Assistant Professor of Mechanical Engineering
1896-'97—Assistant Professor of Experimental Engineering
- FREDERICK C. CLARK, 1895-'96—Acting Assistant Professor of History and Economics
1896-'97—Assistant Professor of Economics and Sociology
- WILLIAM L. EVANS, 1895-'96—Fellow and Laboratory Assistant in General Chemistry
1896-'97—First Assistant Director in Department of Clay Working and Ceramics
- CHARLES W. BURKETT, 1895-'96—Foreman of State Farm
1896-'97—Assistant in Agriculture
- WILLIAM L. GRAVES, 1895-'96—Fellow and Assistant in Rhetoric and English Language
1896-'97—Assistant in Rhetoric
- FRANK HAAS, 1895-'96—Fellow and Laboratory Assistant in Metallurgy
1896-'97—Assistant in Mineralogy and Metallurgy

Executive Department

JAMES H. CANFIELD.....	President
ALEXIS COPE.....	Secretary Board of Trustees, and Bursar
JEAN BLACKFORD.....	Executive Clerk
EDITH D. COCKINS	Record Clerk
W. C. McCRACKEN	Chief Engineer
CHARLES LOWE	Assistant Engineer
WILLIAM STANDLEY.....	First Fireman
BENJAMIN LEBAY	Second Fireman
W. R. BEATTIE	Gardener and Florist
JAMES KELLEY	Lawnkeeper
THOMAS BOUDE	Watchman
RAYMOND JESSE SEYMOUR.....	Guide

JANITORS

WILLIAM WHITESTINE.....	University Hall
WASHINGTON TOWNSEND.....	Orton Hall
F. B. BREWER.....	Chemical Hall
JOHN E. ADAMS.....	Hayes Hall
JOHN CONRAD.....	Horticultural Hall and Veterinary Hospital
J. B. PARKER.....	Botanical Hall
EDWARD D. STALTER.....	Observatory
G. A. FLICKENGER.....	Chapel

OHIO STATE UNIVERSITY

THE UNIVERSITY AND THE STATE

Under an act of Congress passed July 2, 1862, the State of Ohio received from the United States a large grant of the public lands for the purpose of establishing a "college where the leading objects shall be without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, in such a manner as the legislatures of the states may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life." In accordance with this act, the Ohio State University was founded by the State as a public institution of learning. The governing body of the institution is a Board of Trustees, appointed by the Governor of the State for terms of seven years, as provided in the law organizing the University. The original endowment has been supplemented, and the objects of the University promoted, by a permanent annual grant from the United States, under an act of 1890, by special appropriations of the General Assembly; and in 1891, by a permanent annual grant from the State, which grant was doubled by the Legislature of 1896. In accordance with the spirit of the law under which it is organized, the University aims to furnish ample facilities for education in the liberal and industrial arts, the sciences and the languages, and for thorough technical and professional study of agriculture, engineering in its various departments, veterinary medicine, pharmacy and law. Through the aid which has been received from the United States and from the State, it is enabled to offer its privileges, with a slight charge for incidental expenses, to all persons of either sex who are qualified for admission.

THE STATE SYSTEM OF EDUCATION

A State system of free, public education, worthy of the name, freely offers every opportunity and inducement to its entire school population to pass by systematic methods, easily apprehended by those who are to receive the benefits, in schools under popular control, from the lowest seat in a primary school to graduation by a university of high standing. It is not supposed that all pupils can or will accept these opportunities or respond to these inducements. But the highest welfare of the State demands that both opportunity and inducement shall be continually present, and that the broad and firm highway of sound training and of higher learning shall be opened freely to every child of the State.

This State system is naturally divided into three great sections. The first includes the rural or district schools, and the work done in the first eight grades of the city schools. To this is generally given the name of "the Grades." The second division includes the High Schools. The work of the third division is done by the University.

THE UNIVERSITY

This means that the University is practically the thirteenth, fourteenth, fifteenth and sixteenth grades of this State system of free public education. Its work is related to that of the High Schools precisely as their work is related to that of "the Grades." It ought to be quite as natural for a pupil to look forward from the High School to work in the University, as to look forward from "the Grades" or the Rural Schools to work in the High Schools.

ORGANIZATION OF THE UNIVERSITY

The Ohio State University is divided into six colleges, as follows :

The College of Agriculture and Domestic Science consists of those departments represented in the courses leading to the degrees of Bachelor of Science in Agriculture, Bachelor of Science in Horticulture and Forestry and Bachelor of Science in Domestic Science; in the Short Course in Agriculture, in the Short Course in Domestic Science, and in the Course in Dairying.

The College of Arts, Philosophy and Science consists of those departments represented in the courses leading to the degrees of Bachelor of Arts, Bachelor of Philosophy, and Bachelor of Science; and in the Courses Preparatory to Law and to Journalism, and to Medicine.

The College of Engineering consists of those departments represented in the courses leading to the degrees of Civil Engineer, Engineer of Mines, Engineer of Mines in Ceramics, Mechanical Engineer, Mechanical Engineer in Electrical Engineering, and Bachelor of Science in Industrial Arts; in the Course in Architecture, in the Short Course in Clay-working and Ceramics, and in the Short Course in Mining.

The College of Law consists of those departments represented in the course leading to the degree of Bachelor of Laws.

The College of Pharmacy consists of those departments represented in the courses leading to the degree of Bachelor of Science in Pharmacy, and in the Short Course in Pharmacy.

The College of Veterinary Medicine consists of those departments represented in the course leading to the degree of Doctor of Veterinary Medicine, and to a certificate of Veterinary Surgeon.

Each College is under the direction of its own Faculty, which has power to act in all matters pertaining to the work of students in that College.

LOCATION OF THE UNIVERSITY

The University is situated within the corporate limits of the City of Columbus, two miles north of the Union Depot and about three miles from the State Capitol. The University grounds consist of three hundred and thirty acres, bounded east and west by High street and the Olentangy river, respectively. The western portion, about two hundred acres, is devoted to agricultural and horticultural purposes, and is under the management of the College of Agriculture and Domestic Science. The eastern portion is occupied by the principal University buildings, campus, athletic and drill grounds, a park-like meadow, and a few acres of primitive forest.

The grounds are laid out with care; are ornamented with trees, shrubs and flower beds; and are so managed as to illustrate the instruction in Botany, Horticulture, Forestry, Landscape Gardening and Floriculture.

The University may be reached by either the North High street or the Neil avenue electric cars. Those wishing to go to the principal buildings of the University or to the residences on the grounds, should take a High street car going north. Those wishing to visit the Emerson McMillin Observatory, the Veterinary Hospital, Agricultural and Horticultural buildings, the Dormitories, or the athletic field, will find the Neil avenue cars more convenient.

BUILDINGS

UNIVERSITY HALL was completed in 1873. It is built of brick with stone trimmings. It is four stories high, exclusive of basement, two hundred and thirty-five feet long, and the central portion is one hundred and sixty feet wide. This building contains the Executive offices, the assembly room, four halls for literary societies, the Y. M. C. A. and King's Daughters' room, study room, lunch room, and class rooms and laboratories for the Departments of English, French, German, Greek, History, Latin, Mathematics, Pedagogy, Political Science, Philosophy and Physics.

MECHANICAL HALL was erected in 1879. The material is brick, and the dimensions ninety-three feet front and thirty-two in depth, with a wing eighty feet in length and thirty-two feet in depth. It contains a room fitted up with cases for the care of models, instruments of precision, etc., and a room for instruction in laboratory mechanics and draughting. The remaining rooms contain the engines, hydraulic plant, testing machines, etc. The cost of the building and its equipment was about ten thousand dollars; but repeated additions have since been made.

BOTANICAL HALL was provided in 1883 by a State appropriation of fifteen thousand dollars. It is constructed of brick, and is fifty feet long by forty feet wide, with a large addition in the rear. The whole is two stories in height. The main room on the first floor is the lecture room of the Department of Botany. There are also an office, a storeroom, a dark room, a private laboratory, and a laboratory for Physiological Botany. On the second floor is the botanical museum, the main laboratory and the assistant's laboratory. Connected with this building is a large greenhouse and propagating house. The greenhouse is a useful aid in the work of instruction.

ELECTRICAL HALL was built in 1889. It is a two-story brick building about seventy-five feet long and forty five feet wide. Sixty feet of the first floor forms the dynamo room. The floor of this room is of asphalt, laid on a solid concrete foundation. On the second floor are a lecture and draughting room, thirty by forty feet, a photometric room, a library room, and office, stock and locker rooms. The building and its outfit are valued at about fifteen thousand dollars, of which ten thousand was appropriated by the General Assembly, and the remainder has been presented by various electric companies, or purchased by the University.

CHEMICAL HALL was completed during the summer of 1890, and is now occupied by the Departments of General Chemistry, Mining, Metallurgy, and Pharmacy. The building and contents have cost about sixty-two thousand dollars, which was appropriated by the State. It stands three hundred and twenty-five feet east of

University Hall, and fronts the south. It is two stories in height, with a basement of about eleven feet. Its greatest length is one hundred and seventy-nine feet, and its depth between the extreme points, one hundred and thirty-two feet. The depth of the main portion, exclusive of the wings, varies from sixty-three to more than seventy feet. It is built of pressed brick laid in red mortar. At the entrance is a large loggia, and beyond this is a vestibule opening into the main hall.

The Department of General Chemistry occupies the middle and western portion of the second floor. The main lecture room is thirty-seven by forty-two feet, and contains seating capacity for one hundred and fifty persons. The qualitative laboratory is about forty by fifty-eight feet, and contains desks for forty students. The quantitative laboratory contains desks for eighteen students. Besides these, there is a second lecture room accommodating forty persons, a room for the preparation of experiments, a balcony accessible both from the lecture room and the preparation room, two storerooms for supplies, a balance room, a room for working with foul gases, one for distilling water, one for spectroscopic work, one for rough work, one for books, a private laboratory, and an office.

The Departments of Mining and of Metallurgy occupy the east end of the building. In the basement are the smelting furnaces, the assay laboratory, a room for rough work and storerooms for supplies. On the first floor is the lecture room of the professor of Metallurgy, twenty-five by twenty-six feet, with a seating capacity of forty, a laboratory with desks for sixteen students, a storeroom, a balance room, a private laboratory and an office. On the second floor is the lecture room of the associate professor of Mine Engineering, a draughting room, a room for instruments and an office.

The Department of Pharmacy occupies the first floor and basement in the west end of the building, and has a lecture room twenty-two feet by thirty-six, providing for sixty students, a preparation room, a laboratory with desks for twenty-five students, a room for supplies, a balance room, a model drug store and a private laboratory.

ORTON HALL. This building, completed at a cost of more than \$100,000, is designed for the permanent accommodation of the large geological collection of the University and for work and instruction in the Department of Geology. A portion of it is occupied by the library and reading room. The main front is about one hundred and fifty feet in length, and the extreme depth about one hundred and thirty feet. The building is two stories in height, with a high basement, is built of brick and faced with sandstone and is fireproof throughout. Some of the material was contributed by various quarries of the State of Ohio, and almost all of the finer varieties of Ohio building stone are represented in the columns, walls and ceiling panels of the vestibule. At the right of the main entrance is the geological lecture room, and professor's private room; at the left is the University library, reading room and librarian's private room. The central and rear portion is occupied by the geological and paleontological museums. The petrographical laboratory is located on the second floor. In the basement a room is used for work in geographical modeling, the finished models being afterwards placed in the collection of such models in a room set apart for the purpose on the second floor. The basement accommodates also the museum of economic geology. A paleontological laboratory or working room is also provided on the second floor.

The greater part of the basement of Orton Hall is occupied as a laboratory by the Department of Clay-working and Ceramics. This department is also accommodated

with a large room on the first floor for recitation and exhibition purposes. In the rear of Orton Hall is a small brick structure, used for the kilns of the Department of Clay-working and Ceramics.

The College of Law is (temporarily) provided with lecture rooms and library accommodations in Orton Hall.

HAYES HALL. This large building of pressed brick and brown sandstone was recently completed and equipped at a cost of about \$70,000. It is devoted to instruction in Industrial Arts, Drawing, Civil Engineering, Mechanical Engineering and Domestic Science. The entire front of the building is one hundred and sixty-eight feet, and the depth one hundred and forty-six feet, with two rear wings of one story thirty-six by forty-nine feet. The central portion is three stories high and the front wings two stories each. On the first floor are two offices and three lecture rooms besides the machine shop, the forge shop and the foundry. On the second floor are the carpenter and pattern shops and six large lecture rooms, with private rooms annexed.

The Department of Drawing occupies the third floor, for instruction in mechanical and free-hand drawing and photography.

HORTICULTURAL HALL is a handsome two-story brick structure fronting the campus from the west. It contains recitation rooms and indoor laboratories of the Department of Horticulture and Forestry. An extensive greenhouse is attached. Near by is a frame building used by the Department of Agriculture as a store house for seeds and implements. There are also a frame farm residence, a barn for horses, a building for the dairy and several smaller buildings.

THE VETERINARY HOSPITAL contains on the first floor, a veterinary museum and library, a dispensary, and two private rooms for the persons in charge. On the second floor are a class room, a bacteriological laboratory, and a microscopical laboratory. The rear extension contains an operating hall thirty by thirty-three feet in size, and a room provided with stalls cages, etc., for the care of animals under treatment.

THE EMERSON McMILLIN OBSERVATORY. This building and its equipment is the gift of Mr. Emerson McMillin, of Columbus, Ohio, and was built during the summer of 1895. The first floor is divided by a hall and stairway into two parts. The east wing contains an office, library, clock room and a large, well lighted room for the students, furnished with tables, where they reduce their observations and keep the records of their work. The west wing contains the transit house, the dome and photographic dark room. The transit house is a light frame structure, so designed as to be kept as free as possible from heat radiated by any heavy walls of masonry. The dome is a wooden frame-work covered on the outside with canvas. The rest of the building is of pressed brick, the foundations and second story being "rock-faced."

The equipment consists of a twelve-inch equatorial telescope, mounting by Messrs. Warner & Swasey, objective by Mr. Brashear; with a large and powerful spectroscope by Mr. Brashear. This instrument is adapted to use either one or two prisms or a grating, and is provided with a double set of objectives, one corrected for the visual and one for the photographic rays; a positive micrometer with a seven-inch circle by Messrs. Warner & Swasey; a combined zenith telescope and transit instrument of three inches clear aperture by Mr. G. N. Saegmuller; a sidereal clock by Clemens Riefler, of Munich; a comparater by Carl Ziliss; a four-inch portable equatorial by

Alvan Clark; a chronograph by Warner & Swasey; sextants, chronometers, meteorological instruments, etc. In addition to the above, Mr. McMillin's gift provides for an excellent astronomical library.

TOWNSHEND HALL. This building is to be completed during the coming spring. It will be two hundred and sixty feet long, and varies in width from sixty-four feet to seventy-eight feet. It is to consist of two stories and a basement which is fourteen feet high. The walls above the basement line will be of gray pressed brick. The basement walls will be of cut stone, and the trimmings will be of terra-cotta of the same color as the brick. The roof will be covered with cherry-red tile. The building will be of slow-burning construction throughout; with painted interior brick walls, exposed beams, maple floors, and hard pine finish.

Throughout the Dairy Department, which has about six thousand square feet floor space, the floors will be of tile and the walls will be wainscoted with enameled brick.

On the left of the entrance, which is twenty-eight feet wide, is the office of the Department of Agriculture; and a private office, a stenographer's room and fire-proof vault. Connected with the office on the south is an assistant's room, opening into a laboratory for advanced students. At the extreme south end of this floor is a large laboratory for student-work in soils and farm crops. Connected with this laboratory is a balance room, a store room, and an instructor's laboratory. On the west side of the main corridor and connected with the instructor's room, is a large class room opening into a preparation room with a dark room. This class room is fitted with all appliances for showing lantern slides of live stock, buildings, machinery, etc. On the same side of the corridor and on the right of the stair-way leading to the basement and second floor, are the class room and instructor's room for dairying. On the right of the main entrance is the department reading room. The north end of this floor is occupied by the museum (which is fifty-four feet by sixty-seven feet) with an attendant's room. The north end of the high basement is occupied by the dairy department. This consists of a receiving room, a pasteurizing room, a store room, a refrigerator room, a lavatory, butter-making room, cheese-making room, two cheese-curing rooms, and an instructor's room.

In the south end of this floor is a live stock room about forty feet square. One third of this room is occupied by raised seats, the remaining floor space being used for exhibiting and judging live stock. Connected with this is a room fitted with stalls for the temporary accommodation of live stock when needed for class exercises. The basement also contains soil-storage room, bath room, toilet rooms, repair shop, locker rooms, bicycle room, and janitor's room. A small detached building will furnish steam and power for the dairy department. Detached from the main building, but connected with the soil-storage room by a tramway, is a glass house thirty feet by forty feet, for the study of soils and the experimental growth of plants.

The north end of the second story contains a large student laboratory for the department of Agricultural Chemistry; connected with an organic and analysis laboratory, a balance-room, a store-room, and a private laboratory. The lecture room of this department is at the south end of this floor and will seat one hundred and sixty students on raised seats; with a preparation room adjoining. There is also on this floor a class room connecting with preparation room, store-room, and instructor's room; which will be used temporarily by the department of Veterinary Medicine.

There is also an extra class room, ladies' toilet and locker rooms, and a hall for the use of the Townshend Society, designed to seat about two hundred persons.

BIOLOGICAL HALL. This building, now in process of erection, will be ready for occupancy in the early spring. It is for the special accommodation of the departments of Entomology, Zoology, Anatomy and Physiology; and is fully equipped with all the latest and best apparatus for this work. It consists of a basement, in which is done all the work of preparation of subjects for the lecture tables and for the special laboratory work of the advanced students; the first floor, on which are lecture rooms, general and special laboratories, and private work rooms for the professor of Entomology and Zoology and his assistants; the second floor, similarly arranged for the work in Anatomy and Physiology; and a large wing, in which is the museum and a large lecture room. The building is fireproof throughout; and in design, and general appearance is one of the most attractive on the campus.

THE GYMNASIUM AND ARMORY. This beautiful building will be finished about the first of May. The drill hall and gymnasium floor is eighty feet wide by one hundred and fifty feet long. The roof is carried on curved steel arches, lighted from a clear-story at the top. There is a running track around the entire room, about twelve feet from the floor. At the center of the south side is a visitors' gallery, seating about two hundred persons. At the northwest corner of the floor is a stairway leading down to the men's locker and dressing room, while the young women go down a similar way at the northeast corner, to their rooms. On the level with the main floor near the main entrance at the south, is a large room for the use of the Commandant and his classes, and rooms for the director of the Gymnasium. Above the Commandant's room is the room for the officers of the University Cadet corps.

The basement is very high and well lighted. On the young men's side are dressing and locker rooms, the bath room with shower and plunge baths, a bicycle room, a lecture room, the cannon room, the band room, and a large room which is to be the home of the University athletic association. On the young women's side are the locker rooms and bath rooms—precisely like those provided for the young men; a bicycle room, lecture room, and private office for the instructor in Sanitation and Hygiene for young women. Between the young men's apartments and those for the young women is a large cafe and lunch room. This has become a necessity because of the large number of students who remain on the campus all day. It will be in the hands of a competent caterer, and will also be the "laboratory" for the work of the cooking classes of the Department of Domestic Science.

THE NORTH DORMITORY is situated at the northern limit of Neil avenue, and fronts Eleventh avenue. It is at the terminus of the Neil avenue electric car line. It is a plain structure of brick, and affords accommodation for sixty-four students.

THE SOUTH DORMITORY stands near Neil avenue within a few rods of the North Dormitory. It is also built of brick, and contains rooms for twenty students.

RESIDENCES. There are seven dwelling houses upon the University campus. Five of these are brick and two are frame structures. One is occupied by the President of the University, five by professors, and the seventh is the farm house.

LABORATORIES AND EQUIPMENT

AGRICULTURE

The equipment of this Department may be divided along three general lines; the plant, the museum and the illustrative materials.

THE PLANT. This consists of a farm of about two hundred acres, a general farm barn, a horse barn, and several smaller buildings. The farm lies along the Olentangy river, and includes both first and second bottom land. On this farm are grown general farm crops in the rotation deemed best suited to the circumstances of the Department. At present a few experiments are conducted, the general idea being to conduct such experiments as will have the largest instructional value to the students who attend the College of Agriculture. The Ohio Agricultural Experiment Station continues to conduct here the elaborate fertilizer experiments with wheat, corn and oats, which it has been making on this farm during the past five years. Different species and varieties of farm crops are grown to some extent for the purpose of class illustration and instruction, and it is expected to enlarge this feature.

Specimens of the draft, coach and roadster type of horses are kept and used in the farm work. The Department manages a milk dairy, having a herd of about forty cows, composed of pure bred and grade Jerseys and shorthorns.

The general farm barn contains a well arranged stable for forty cows; with underground drainage and sewage cistern, a milk cooling room, a silo, a root cellar, a workshop, with room for hay, grain and other food stuffs.

THE MUSEUM. This contains a large number of samples of farm products in various forms and their by-products; such as soils, grains, grasses, wools, cotton, forage plants and food stuff. Milling and other processes are illustrated by samples of the various products of manufacture.

The museum contains Auzoux models, samples of tools and a considerable miscellaneous collection. The collections are intended primarily for student-use and not for display.

ILLUSTRATIVE MATERIALS. These consist of charts, pictures and lantern slides showing results of experiments, representative and noted specimens of live stock, farm machinery, fences, buildings, etc. The Department has and uses constantly in the class room, a Beseler double oxygen-ether stereopticon. The collection of several hundred lantern slides for this purpose is constantly receiving additions.

THE AGRICULTURAL LIBRARY. While not considered as belonging specifically to this Department, there is in the general library a fairly good collection of books and periodicals devoted to agriculture, a large use of which is required of the student.

THE LABORATORY OF SOIL PHYSICS is located on the second floor of Horticultural Hall and is supplied with apparatus for the mechanical analysis of soils and for testing their physical properties. (*See also BUILDINGS, Townshend Hall.*)

BOTANY

The general Botanical Laboratory occupies a part of the second floor of Botanical Hall. It is 23x33 feet and is furnished with both movable and fixed tables. The latter are attached to the west and south walls near windows suitably shaded. Water,

gas and an evaporating hood are also provided. The laboratory is equipped with compound microscopes of the Baush and Lomb, the Leitz and other patterns, and accompanying each is a tray of tools and a case of reagents. There are more than thirty dissecting microscopes; also charts, and several minor pieces of apparatus for experiments in vegetable physiology. Three smaller rooms are also provided as laboratories for special work, as well as a dark room for photography. Other facilities for the illustration of the courses in botany, and for practical training in the same, are: A general herbarium including flowering plants, ferns, mosses, fungi and algae; a state herbarium, a collection of fruits and seeds, valuable timbers, woods, grasses, and various economic products of the vegetable kingdom; ornamental grounds and woodland, planted with a large variety of evergreen and deciduous trees and shrubs; and a greenhouse with a fair collection of native and exotic plants. See also MUSEUMS—*The Botanical Museum*; and BUILDINGS—*Botanical Hall*.

CHEMISTRY

The laboratories of the Department accommodate two hundred and twenty-five students. The general lecture room is large and well lighted, and all needed facilities are provided for the full experimental illustration of the lecture courses. The Department is generously supplied with the best apparatus and materials for both lecture and laboratory work, and has also a growing collection of specimens illustrating the application of chemistry to the arts. See also BUILDINGS—*Chemical Hall*.

CIVIL ENGINEERING

The facilities provided for the illustration of the courses in civil engineering and for practical training are as follows: One high grade and three ordinary transits, four leveling instruments, solar compass, prismatic compass, improved telescope compass, Abney hand level, level and stadia rods sight poles, chains, tapes; large Ritchie-Haskell current meter; twenty-six improved drawing tables with 30" by 36" top; Schroeder's models in stereotomy of roof trusses; large set of models of wooden joints; collection of photographs of bridges both when finished and in course of erection; collections of strain sheets and shop drawings of bridges; new improved cement testing machine and outfit for making all kinds of cement tests; stone-mason tools for working models out of plaster blocks; magic lantern and slides; collections of samples of building materials; calculating machines; sets of drawing instruments; blue-print room with outfit; set of tracings of standard structures from which each student may make a set of blue-prints. The equipment is growing each year by the addition of materials purchased, presented, or made by students of the Department.

CLAY-WORKING AND CERAMICS

The University is the first, and at this time, the only institution in the United States offering special facilities for the study of clays, clay-working, and the chemical technology of the ceramic art. The facilities of the Department comprise: 1st. A convenient chemical laboratory, specially designed and equipped for the analysis and decomposition of silicates. Provision has been made for the use of hydrofluoric acid with safety and the platinum ware has been made to order with this purpose in view. 2d. A complete mechanical outfit for the preparation of clays for pottery manufacture and the production of the ware itself, of any grade from earthen wares to

porcelain. The machinery is of the latest types and comprises all important varieties in use for grinding, tempering, washing, filtering and molding. 3d. A similar plant for the manufacture of brick, tiles, pipes and hollow goods. The machinery here is of full size and samples up to a ton in weight can be received and transformed into the finished articles by any or all of the standard methods in commercial use. The power for this purpose is derived from a fine electric motor, driven from the University power plant. 4th. A kiln house, equipped with a kiln in which several hundred bricks, or an equivalent quantity of sewer-pipe, stoneware, or pottery, can be burnt. The fuel is intended to be coke, except in special cases, where the fuel available for burning clay wares is to be made the subject of test. There is also provided a crucible melting furnace and a muffle furnace for testing glazes. A muffle kiln of large size for burning pottery, glazed ware and decorated wares will probably be added in the near future. 5th. A ceramic museum containing a fine collection of American pottery and clay products of every class, is in process of installation. 6th. A library of the best literature on the subject, mainly German, but containing a few English and French works, and the trade periodicals. See also *BUILDINGS—Orton Hall*.

DRAWING

The Department occupies the entire third floor of Hayes Hall and is provided with the following equipment for the illustration of the work in drawing and for practical training in the same; For freehand drawing: Flat and shaded copies in pen, pencil and charcoal; wooden models of geometric forms; plaster casts of ornaments, flowers, fruit and the antique; easels and drawing tables; a well selected line of work from artists of recognized ability. For mechanical drawing: O. S. U improved drawing tables (30" x 36" tops), a set of the celebrated Schroeder models, a collection of shop drawings and facilities for blue printing. For photography: A well arranged and equipped dark room, printing outfits, copying camera, four view cameras, lenses of long and short focus, flash lamp and shutter for instantaneous photography. In addition to the above, the library contains a well chosen collection of books pertaining to the work of the Department. See also *BUILDINGS—Hayes Hall*.

ELECTRICAL ENGINEERING

The Electrical Laboratory affords very good facilities for practical experimental work with dynamo machinery and other electrical apparatus. Machines of various patterns and including direct and alternating, single and multi-phase, incandescent and arc lighting and stationary and railway motors, aggregating about two hundred horse power are at the disposal of the students. Besides these there are transformers of several makes, arc lamps, a storage battery of 10 kilowatt-hour capacity, welding apparatus, Prony brakes, etc. Photometry is given at present in the Physical Laboratory. Power is supplied by three 2-phase motors giving in all seventy horse power and run from the University Power Plant. For measurements there are a goodly supply of instruments, both A. C. & D. C., the latter mostly Westons. It is the aim of the Department to give a thorough working knowledge, made practical by constant applications, of the laws underlying Electrical Engineering; and, incidentally, familiarity with the machinery and apparatus. In addition to the Electrical Laboratory proper, there is the University Power Plant, with a generating capacity of 180 kilowatts, which runs incandescent and arc lighting and motors at various points on the

campus. This plant is a model one, and of great value to the students. Most of the installation work has been done by paid student labor, and there is often opportunity for doing work of this sort. Columbus and neighboring towns have many electrical plants and students are always welcome to study them.

GEOLOGY

The University is able to present unusual advantages for the study of geology. By an act of the Legislature it has been put in possession of all the collections made by the late geological survey, and these collections have been supplemented by valuable additions of fossils and minerals from various sources. The State collection embraces a very complete representation of every geological formation shown in Ohio. In its new and ample quarters the Department offers exceptionally good opportunities for work in the lithological, petrographical and modeling laboratories. See also MUSEUMS—the *Geological Museum*; and BUILDINGS—*Orton Hall*.

HORTICULTURE AND FORESTRY

Among the facilities provided for the illustration of the courses in horticulture, and for practical training in the same, are: (1) a collection of horticultural tools for budding, grafting, pruning, etc.; (2) an orchard, containing well selected varieties of the apple, pear, cherry, plum and quince; (3) a small vineyard, containing numerous varieties of the grape; (4) a garden of small fruits, containing all the best varieties of the strawberry, raspberry, blackberry, currant and gooseberry; (5) a vegetable garden with forcing houses, cold frames, experimental plats, conveniences for irrigation, etc.; (6) small nursery and forest tree plantations, with practice rows of budding, grafting, pruning and training; (7) ornamental grounds and woodland, planted with a large variety of evergreen and deciduous trees and shrubs; (8) a greenhouse, with a fair collection of native and exotic plants; (9) a collection of preserved natural specimens, and models of fruits, seeds, woods, etc.; (10) a laboratory fairly well equipped with balances, charts and other appliances for study and research. See also MUSEUMS—*The Botanical Museum*; AND BUILDINGS—*Horticultural Hall*.

MECHANICAL ENGINEERING

The greater portion of Mechanical Hall is devoted to laboratory purposes. One room is reserved as computing room and for class work in Mechanism; another room is used as an Engineering Museum and Instrument Room for the collection of kinematic models of engineering materials, of instruments for measuring and testing purposes, and a large collection of photographs presented by some of the leading manufacturers of the country. The laboratory embraces appliances, etc., and a very complete equipment for hydraulic testing.

Among the appliances are a Thurston railroad oil testing machine; an Olsen Automatic and Autographic testing machine for tensile, compressive, shearing and transverse tests of 100,000 lbs. capacity; a Riehle 42,000 lb. tensile and compressive testing machine; an Olsen torsive testing machine; a Robinson transmission dynamometer; Prony and rope absorption dynamometers; indicators of five different makes, with drum and cylinder spring testing apparatus; a set of Westinghouse air brake apparatus; ventilating fan; power blower; a seven horsepower Otto gas engine, an one hundred horsepower Buckeye engine; a pair of steam engines of

twenty and thirty horsepower respectively, connected to a Wheeler surface condenser and a Blake air pump, and so arranged as to work duplex, compound, condensing or non-condensing; five steam separators and four injectors, and means of testing same; steam and coal calorimeters; apparatus for testing steam-pipe covering for insulation and durability. All of the engines are fitted up for indicator work. In the boiler house are 600 horse power of Babcock and Wilcox Co's boilers fitted with Murphy, Acme and chain grates, and a thirty horse power return tubular boiler; which serve for experiments on boilers. The equipment for hydraulic testing consists of a two-foot standpipe for three hundred feet of head; Leffel turbine and Cascade water wheels; a Pelton water wheel, a Rife's hydraulic engine; Gem & Eureka water motors; a pulsometer; a forty horse power centrifugal pump; Davidson & Blakeslee feed pumps and Laidlaw-Dunn-Gordon boiler feed and fire pumps, the last of 48,000 gallons per hour capacity; Ericsson and Rider hot-air pumping engines; two water bays of twenty-five hundred gallons capacity each; weirs, orifices, nozzles and weighing tanks.

Those who have generously contributed to the equipment of the laboratory, during the past year are: The Jas. Leffel Co. of Springfield, O., The Harrison Safety Boiler Works, and Hugo Bilgram, of Philadelphia, Pa., The Laidlaw-Dunn-Gordon Co. of Cincinnati, O., The Babcock & Bishop Co. of Cleveland, O., and others in the way of photographs and blue prints.

The mechanical laboratory virtually embraces much more than that mentioned above, as there are steam and gas transmission pipes in tunnels for service with the various buildings of the institution, fitted with attachments for conducting experimental tests.

Trips are made also to the manufacturing establishments of the city, where numerous steam and other plants are available for expert testing. See also BUILDINGS—*Mechanical Hall*.

METALLURGY AND MINE ENGINEERING

The draughting room is large, well lighted and provided with a desk for each student. A workshop in the attic is fitted with tools for making models, and for experiments in ventilation. The metallurgical laboratory has all the appliances for the most modern methods of technical analysis as practiced in iron and steel laboratories, including gas analysis. A furnace room in the basement is fitted for gold and silver assaying, with improved muffle and crucible furnaces.

The lecture room in metallurgy has arrangements for projecting photographs of machines, mines and furnaces, for class illustration, and there is a large collection of such views. There is a photographic room with blue printing facilities, where students learn to make copies of the drawings used in illustrating the lectures.

A collection of minerals and rocks with a large set of rock sections is provided for illustrating the mineralogy, as well as sets of blow-pipe apparatus for students in determinative mineralogy. See also BUILDINGS—*Chemical Hall*; and MUSEUMS—*The Geological Museum*.

PHARMACY

The facilities provided for illustration of this work and for practical training are as follows: The apartments assigned to this work occupy the west end of the Chemical Hall, first floor and basement. The lecture room will accommodate sixty students,

and is provided with a large lecture table and supplied with gas and water, and other conveniences for experiment. About the walls are arranged cases in which are exhibited rare and costly chemicals, curious drugs, and high-grade pharmaceuticals. Adjoining this room is the preparation room and store room, where the supplies and apparatus and material are kept, and where the apparatus for experiment and illustration before classes is prepared. Also adjoining this room is the professor's private laboratory. The main laboratory has desks for thirty-five students, each one provided with gas and water, and sufficient storage space for material and apparatus. The laboratory is furnished with apparatus for distilling and reclaiming, with mills, balances, drying closets, steam vaporizers, hoods and other special apparatus for pharmaceutical work. Opening into the laboratory is the drug store. This drug store is complete, and is in itself a cabinet of officinal drugs, and all preparations thereof. It is provided with a prescription desk and all apparatus adapted for training in prescription work. Adjoining the laboratory is the reading room, where are kept the various pharmaceutical journals, the dispensaries, and many books of reference. Also adjoining the main laboratory is the balance room, which is well provided with analytical balances, specific gravity balances and microscope, all of which are intended for higher pharmaceutical work.

In the reading room is also a cabinet of crude drugs, which have been classified and numbered but bear no name. This cabinet is adapted to the study of pharmacognosy.

In addition to the foregoing equipment, the Department is possessed of an extensive range of apparatus, by means of which any branch of work in pharmacy can be successfully pursued. The Department is complete in all its details, and affords unexcelled opportunity for the study of pharmacy. See also BUILDINGS—*Chemical Hall*.

PHYSICS

The Department has an excellent equipment of apparatus, to which additions are constantly being made. The apparatus includes a large collection of pieces for illustration of the general lecture room work, but is principally chosen for accurate measurement in the laboratory. A set of standards of length, capacity and mass sent under the act of Congress supplying such sets to the several agricultural colleges, is in the possession of the Department. The pieces are copies of the United States standards made by the Coast Survey at Washington.

Among the principal pieces of apparatus are a dividing machine by Fauth & Co.; chronometers by Parkinson & Frodsham and by Negus, the latter a break-circuit; a chronograph by Fauth & Co.; a Hipp's chronoscope; cathetometers by Salleron and by the Geneva Society, the latter an exceptionally fine instrument; Regnault's apparatus for vapor tension, for expansion of gases and for specific heat; Melloni-Tyndall apparatus for radiant heat; standard thermometers by Baudin and others; Rutherford & Rowland, diffraction gratings; Rowland's spectrum photographs; spectrosopes by Brashear, Browning, Apps and others; Salleron's complete apparatus for projections in polarized light; lanterns for projections by the lime light and the arc light; a variety of sound apparatus from Koenig; portable and quadrant electrometers; Kelvin galvanometers of high and low resistance; Weidemann, Kohlrausch and other galvanometers; standard resistance coils, with Cavendish laboratory certificate; several sets of resistance coils and bridges; a Kew magnetometer; Kelvin

standard balances; Weston ammeters and voltmeters; standards of self-induction; standard battery cells; photometric standards and photometers; X-ray apparatus, etc.

Under the laws of Ohio, the professor of physics is *ex officio* State Sealer of Weights and Measures, and all of the standard weights, measures and balances received from the United States government are in the rooms of the Department.

PHYSIOLOGY

The facilities provided for the study of anatomy, bacteriology, histology and physiology are excellent. The laboratory is supplied with skeletons, papier-mache manikin, and many models, including models of the eye, ear, larynx, etc. The apparatus of the Department for work in bacteriology and physiology is of the best and most approved construction, and is adapted to the accurate investigation of bacterial forms, as well as to the thorough performance of the fundamental physiological experiments. Myographs, spectroscopes, microscopes and the necessary chemical outfit are also provided. For work in histology the equipment includes twenty-four individual tables for student experiments, each table being supplied with a good microscope, microscopical accessories, microscopical reagents; and for advanced work, the needed apparatus for instruction in the various methods of hardening, staining, imbedding, section-cutting and injection. The laboratory also has excellent microtomes, imbedding baths and other essentials of a histological outfit. The equipment of the laboratory makes it possible to offer a large range of work for the choice of students in advanced courses. See also BUILDINGS—*Biological Hall*.

SHOPWORK

The shops, which occupy the north wing of Hayes Hall afford excellent facilities for instruction in both the practical details and the underlying principles of carpentry, pattern-making, forging, moulding, foundry-work and machine-work.

The carpenter and pattern shop is equipped with twenty-five benches with complete sets of carpenter tools for each and a large number of special tools for general use, twenty-three pattern-makers' turning lathes with cupboards containing the necessary turning and pattern-making tools under each, a pony planer, a buzz planer, a circular rip and cross cut saw, a scroll saw, a trimmer and a power grindstone.

The forge shop is equipped with twenty stationary forges with anvils and tools for each, a heating forge, a portable hand forge, a foot-power hammer, a blacksmith's drill and a punch, shear and bar cutter. The blast for the forges is furnished through under ground piping by a 45" Buffalo pressure blower, and the smoke is removed by a 55" Buffalo exhaust fan overhead. Both of these fans are driven by a 15 horse power electric motor.

The foundry is equipped with a 24" Calliau cupola, the blast for which is furnished by a 30" Buffalo blower, two brass furnaces, one 16 inches in diameter and the other 20 inches in diameter, a core oven, benches for iron and brass moulding, core making and cleaning of castings, a space for floor moulding 30 feet by 40 feet, besides all the necessary moulding tools, flasks, crucibles, ladles, tongs, etc.

The machine shop is driven by a 30 horse power electric motor from above and is equipped with the following tools: Twenty-eight benches for vise-work with complete sets of tools, eight speed lathes, sixteen engine lathes, two planers, two shapers, a milling machine, an upright drill, a sensitive drill, grinding machines for both plane and cylindrical surfaces, tool grinders, emery wheels, etc. This machinery is furn-

ished with all the necessary tools, and the tool room is equipped with full sets of drills, taps, dies, milling cutters, standard plugs, gauges, threads, etc., micrometers and a great variety of special tools. See also BUILDINGS—*Haves Hall*.

VETERINARY MEDICINE

The Veterinary Hospital affords excellent facilities for the treatment and care of animal patients and also gives the students the opportunity to become practically familiar with the diseases to which our domesticated animals are subject. It contains box-stalls, stalls for cold-water applications, a large and well lighted operating hall and a special ward for dogs. The front part of the Hospital contains a lecture-room, a museum of anatomical and pathological preparations, a drug dispensary and an office. In the museum are skeletons of the horse and ox, a complete manikin of the horse, papier mache models of various anatomical parts, pathological specimens preserved in alcohol, etc

In the library are choice collections of works in veterinary medicine and allied sciences and also copies of the leading veterinary periodicals.

The College is well equipped for surgical work. Instruments of the latest and most approved makes are kept in the instrument room for use in operations.

In the daily clinics not only are horses and dogs represented, but also the meat-producing animals from the farm, near the College.

The bacteriological laboratory in the biological department is supplied with apparatus of the most modern and improved construction, the microscopic appliances being adapted to the most accurate work in bacteriology. See also BUILDINGS—*The Veterinary Hospital, Biological Hall*.

ZOOLOGY AND ENTOMOLOGY

The outfit of the Department is ample, consisting of general zoological collections, an entomological collection, a series of skeletons, alcoholic specimens, and all needed instruments. See also MUSEUMS—*The Zoological Museum, The Lake Laboratory, Biological Hall*.

THE LAKE LABORATORY

There has been established at Sandusky a summer laboratory for the purpose of investigations of biological problems in the great lakes. It is located at the present site of the State Fish Hatchery in the east bay of Sandusky. The site is chosen with especial reference to its convenience, the sheltered waters of the bay, the proximity of the fish packing establishments, and the ready access to the islands and open lake. The laboratory affords a rare opportunity for instructors and students to spend the summer vacation at practical biology in a most agreeable and profitable way. The facilities offered are free to students of any branch of biology. The chief work for the first season related to the food and enemies of the fishes of the lake.

THE MUSEUMS

THE GEOLOGICAL MUSEUM of the University has been collected and arranged with reference to instruction rather than to display. The basis of it is a large and comprehensive collection of the rocks, fossils and economic minerals of Ohio. The collection embraces the following named series :

(a.) An excellent representation of the leading divisions of the geological scale of the State, so far as it can be illustrated by rock specimens. The specimens represent the leading phases of each formation, and in many cases carry the characteristic fossils of the horizons from which they are derived.

(b.) A collection of the animal and vegetable fossils of the rocks of Ohio. This series includes a large majority of the described fossils of our formations, and in the number are many type specimens. While all the ages of our geological history are well represented, the collection of the Upper Silurian and Devonian animal fossils is particularly rich and complete. A remarkably fine series of coal plants is also included in the museum. The list of fossils has been greatly extended in the number of species and individuals, by the recent purchase of the collection of Mr. Henry Moores, of Columbus.

(c.) The economic minerals of the State are also shown to excellent advantage in the museum. The coals, petroleums, iron ores, clay and building stones produced in Ohio are represented in large collections. Many of the specimens upon which chemical examinations or physical tests have been based in the work of the geological survey of the State are included here.

(d.) Petrographical collections: These collections were selected with a view to their use in petrographical instruction and embrace the Hawes collection, the Krantz collection and the Rosenbusch complete series of typical rock specimens from important centers abroad. These hand-specimens are supplemented by two series of thin sections, including Voigt and Hochgesang's collections of typical rocks and of the petrographically important minerals.

In addition to the collections above described, the museum contains a great deal of valuable material in the line of general geology and mineralogy. Among other things it includes several valuable suites of ores, and many fine mineral specimens.

There also belong to the museum a number of geological casts, models and maps. In this series are included a relief map of the State of Ohio, and also the models of the basins of the Atlantic ocean and Cariobean sea, prepared under the supervision of the United States Coast and Geodetic Survey.

The catalogue of the museum contains more than 10,000 entries; but as only one number is as a rule given to a fossil or a mineral species, the individual specimens make an aggregate list of many thousands in addition to the catalogue list, and probably double this list.

The skeleton of a mastodon, one of the extinct elephants of Ohio, has recently been presented to the museum by N. S. Conway, of Catawba, O., on whose farm it was found. It has been mounted by Prof. H. A. Ward, of Rochester, N. Y., and proves to be one of the largest in the country.

The museum also has a mounted skeleton of *Megalonyx Jeffersonii*, one of the great ground sloths. This specimen has the distinction of being the first and thus far the only mounted skeleton of this animal in the world. The bones were discovered by Abraham Drushell and others in a swamp in Berlin township, in Holmes county, O., in 1890. They were mounted in Ward's Natural Science Establishment, Rochester, N. Y. The entire outlay involved in the purchase of the bones and in mounting them was borne by Emerson McMillin, of New York.

THE ZOOLOGICAL MUSEUM is located on the ground floor of the wing of Biological Hall. The foundations of a zoological museum have been laid and the work has been begun on a generous plan. Every effort is being made to secure and preserve excel-

lent specimens in all groups of animals. Not only the adult animals are preserved, but the preparatory stages, their work and architecture; in fact, all that can illustrate the life-history and habits.

Among its features and recent additions may be mentioned the Wheaton collection of the birds of Ohio, numbering about 1,000 skins. These have been arranged in Harvard boxes, and may be consulted at any time by those interested.

About 3,500 species of molluscan shells have recently become the property of the museum. These will soon be displayed in suitable cases.

Among the mammals added are two fine specimens of moose, an animal fast disappearing from North America. Our reptiles, fishes and insects are being accumulated as rapidly as possible. There is, besides, a good supply of skeletons, crania and alcoholic material for the laboratory courses in comparative anatomy and general zoology.

Much attention has been given of late to the collection of insects; in some groups it is now abreast of any; especial efforts are being made to increase the exhibit of economic or destructive insects.

THE BOTANICAL MUSEUM occupies the second floor of Botanical hall. It contains the University herbarium^s, both general and State, also Professor Kellerman's private herbarium of over 20,000 specimens deposited for use in the Botanical Department; a complete collection of the native woods of Ohio; a collection of the seeds and fruits of plants; a collection of native medicinal plants; a general collection of vegetable products, including seeds, textile fibers, coloring substances, etc., illustrating economic or applied botany.

THE AGRICULTURAL MUSEUM. For a description of this museum, see BUILDINGS, *Townshend Hall*.

THE ANATOMICAL AND PATHOLOGICAL MUSEUM. For a description of this museum, see Laboratories and Equipment, Veterinary Medicine.

THE MUSEUM OF CLAY-WORKING AND CERAMICS is now in process of formation. Some excellent specimens of ceramic products have already been collected and efforts are being made to increase the collection.

ARCHÆOLOGIC COLLECTION. Orton Hall now contains the second best archaeological exhibit in the Ohio Valley, the total number of specimens owned by the Ohio State University, the Ohio State Historical and Archæological Society and by private individuals, amounting to 46,200. Although the Museum is but three years old, it has shown a remarkable growth.

Field work has been carried on in the various parts of the state during the summers of 1894, '95 and '96: and as a result the contents of more than eighty mounds, graves and village sites are now on exhibition. The chief exhibits illustrating the life of ancient tribes are from Fort Ancient in Warren county, from the mound graves of the lower Scioto and from the Muskingum Valley. It is considered that in Ross county aboriginal culture reaches its highest development in the whole Ohio Valley. This fact is well attested by the presence of numerous copper objects, effigy pipes, fine ornaments and ceremonials, pottery, delicate work in polished stone and flint implements, etc.

The collection from the valley of Brush Creek and along the Ohio itself, and from the hill regions of Ohio, show a much lower grade of culture. Careful comparison of the work of man from these localities is exceedingly interesting.

There is an exhibit from Flint Ridge, illustrating the manufacture of arrow and spear heads. The Museum contains nearly 150 specimens of pottery from Missouri and Arkansas, many of which are effigies of animal, bird and human form.

The founders of the Archæologic Museum are arousing public interest in the preservation and study of Ohio antiquities; and by means of exchanges, lectures and personal solicitation, the growth of the collection is considerable.

LIBRARIES

THE UNIVERSITY LIBRARY

The University Library is located in the east end of Orton Hall. The system of departmental libraries prevails to a limited extent, small collections of books specially needed in connection with laboratory and class room work being deposited in several departments.

During term time the Library is open six days in the week, legal holidays being excepted. From Monday until Friday the hours are from 7:30 A. M. until 9:30 P. M.; on Saturday from 8 A. M. until 4 P. M.

The management of the Library is vested in a Library Council which is composed of the President, the Librarian and the Deans of the six colleges.

STATE LIBRARIES

Students are privileged in being near the two state libraries.

The Ohio State Library numbers about 70,000 volumes, and is a circulating one for all the citizens of Ohio. It occupies a room in the State House.

The State Law Library, also in the State House, is the largest and most complete law library in the State. It contains complete sets of the English, Scotch, Irish, Canadian, United States and State reports, statutes and digests. The important legal periodicals are on file.

CITY LIBRARIES

The students of the University, as residents of Columbus, have access to the City Library and the Public School Library under the usual regulations. The City Library numbers 28,000 volumes. It has specially pleasant reading and reference rooms. The Public School Library numbers 35,000 volumes, and is a well selected collection of books. Students will find both libraries valuable in supplementing the University Library.

AIDS TO MORAL AND RELIGIOUS CULTURE

Chapel services are held daily, except Saturday and Sunday, at the University, at which the attendance of all instructors and students is expected. The services consist of singing, reading the scriptures, and prayer.

One of the most commendable organizations in the University is a branch of the International Young Men's Christian Association, organized in 1883. It has a large membership and steadily grows in influence. Services are held weekly. New students are made cordially welcome, and young church members will here enjoy Christian influences and fellowship in college life. A University Circle of the Order of the King's Daughters holds its meeting once a week, and includes in its member-

ship a majority of the women attending the University. A club for the study and practice of philanthropy has recently been organized by the King's Daughters.

An effort is being made to complete, by subscription, the fund which was begun two years ago by students, alumni and professors, for the erection of a building to accommodate the student organizations of the University.

LITERARY AND OTHER SOCIETIES

The Alcyone Literary Society, open to young men, was founded in 1874, and the Horton Literary Society, open to young men, was founded in 1875. These societies have commodious and well furnished apartments in University Hall. The Browning Literary Society founded in 1883, and the Philomathean Literary Society founded in 1894, are open to young women. These societies meet weekly, and their work, offering to the student a very desirable training in composition, public speaking, and parliamentary order, is a valuable adjunct to collegiate education. The Newman Literary Society, maintained by students of the Roman Catholic faith, was organized in 1892, and holds its meetings bi-weekly.

The Biological Club is an organization of professors and students for mutual assistance and improvement in the line of natural science. Its meetings are regularly held every two weeks, at which papers are read, notes of observation and research presented, and current biological literature discussed. The Chemical Association is a similar organization in the line of chemistry.

The Political Science Association is an organization of instructors and students in political science and history for the consideration of questions in those fields. At the regular bi weekly meetings papers are read, researches reported, and current questions and publications in political science, considered and discussed.

The Townshend Society of the College of Agriculture meets weekly for the discussion of current topics in agricultural and related subjects.

The Engineering Society is a similar organization of students and instructors, holding meetings bi-weekly, for the consideration of questions in the various branches of engineering.

The Germania Society was founded in 1895. Only students that have had elementary ("first year") German are eligible to membership.

The aim of this society is to give to its members additional opportunities for the study of German literature and for the practical use of the German language. Nothing but German is spoken at the meetings, which are held every other week throughout the University year. Students of German find it very advantageous to be present at those meetings and to take an active part in them.

The O. S. U. Dramatic Club was organized in 1893. Its object is to present each year to the University world one of the standard legitimate dramas. Its membership is confined to University circles.

The musical organizations of the University are: The O. S. U. Glee Club, composed of sixteen members; the O. S. U. Octette, a mandolin orchestra of eight pieces; the O. S. U. Mandolin and Gui ar Club; and the Cadet Band.

The Ornithological Club encourages observation and reseach in the study of birds and their habits, especially of our native species. The Wheaton collections in the possession of the University forms a basis of study. The programs consist of papers and discussions, and reports of observation and personal work. Anyone inter-

ested in birds is eligible to membership and visitors are always welcome. The Club meets on the second and fourth Monday evenings of each month.

The O. S. U. Sketch Club was organized for the purpose of promoting art interest among the students of the University. Its membership is confined to University circles. The active members meet once a week for practical work, the associate members meet once a month in open session for literary programs bearing upon art history and criticism.

The William F. Hunter Society, in the College of Law, meets for moot-court practice and quiz-work, every two weeks.

MILITARY SCIENCE AND TACTICS

Under the law of Congress establishing the University, it is required that instruction shall be given in military science and tactics. In accordance with this provision an officer of the regular army has been detailed to take charge of the Department of Military Science and Tactics; and the Trustees have directed that all male students, except those in the Law College, and such others as may be specially excused, shall render two years of cadet service as a condition of graduation. A uniform has been prescribed with which each member is required to provide himself; and fifty minutes a day are devoted to drill, except on those days when instruction in tactics and art of war is given.

The course of instruction is both practical and theoretical. It is given by means of a systematic drill, supplemented by lectures and recitations, and is so arranged as occupy five hours per week throughout the year. For purposes of drill, all students enrolled in the Department are organized in a battalion, the officers of which are selected from those students who have shown special proficiency in the work of the Department. Officers receive commissions, and non-commissioned officers warrants, issued by the University. A military band has been organized in connection with this Department, and is supplied with instruments belonging to the University and to the cadets.

The practical course in infantry embraces all the movements prescribed by the drill regulations of the U. S. Army applicable to a battalion. Instruction in artillery embraces such portions of the United States drill regulations as pertain to the formation of detachments, manual of the piece, mechanical maneuvers and aiming drill. Instruction also includes duties of sentinels, the various ceremonies performed by troops, and military signaling. The theoretical instruction includes a systematic and progressive course in drill regulations of the U. S. Army, the preparation of the usual reports and returns pertaining to a company, the organization and administration of the U. S. Army and the elementary principles governing in the art of war.

Competitive drills are held from time to time for two medals; one, the first prize, of gold, presented to the University by The M. C. Lilley & Co., of Columbus, Ohio; the other, the second prize of silver, presented by Lieut. Wilson, when commandant. These medals remain the property of the University, the winner wearing them until the next competition.

The equipment of the Department consists of three hundred Springfield cadet rifles and sets of infantry equipments, two 3-inch rifles, sixteen officers' swords and belts, also the necessary equipment for instruction in signaling and a few instruments for the band.

The U. S. Ordnance Department furnishes an annual allowance of one hundred blank cartridges and three hundred friction primers for the 3-inch rifles, one thousand rounds of ball and one thousand rounds of blank cartridges for cadet rifles.

PHYSICAL TRAINING.

Competent instruction in hygiene and general sanitation is given by the Director of the Gymnasium, who has entire charge of the physical training and well-being of all students. Supplementing this work, the practical instruction in military tactics is found to be a most valuable aid. In addition to this, the University grounds afford excellent opportunities for general athletics, and the students support well organized clubs in base-ball, foot-ball and lawn-tennis. These and other sports are participated in by large numbers, and friendly contests are occasionally held with other colleges. Besides the special clubs named above, the students have an athletic association which holds an annual "Field Day," in which prizes are given to the victors in the various contests usual on such occasions.

OHIO FORESTRY BUREAU.

This Bureau has been established and located at the University by the Legislature for the purpose of inquiring into the best means of preserving and utilizing the forests of the State.

TERMS AND VACATIONS

The first term of each University year begins on Wednesday following the tenth day of September, and closes on the Wednesday preceding Christmas. The second term begins on the Wednesday following the first day of January, and closes on the Friday following the twenty-first day of March. The third term begins on the Monday following the close of the second term, and closes on Commencement day, which is the Wednesday following the eleventh day of June.

Regular college exercises are omitted on Thanksgiving Day and the day following, on the twenty-second day of February, and on Memorial Day.

FEES

THE COLLEGES

INCIDENTAL FEE.—A charge of fifteen dollars a year is made against all students, under the head of incidental expense. In the case of former students, if this fee is not paid until the second day of the term, one dollar will be added, and for each succeeding day of delinquency fifty cents will be added.

LABORATORY FEES.—Students in the laboratories and shops are required to pay fees to cover, in part, the cost of the materials consumed, and the deterioration of the expensive instruments used by them. The fees charged per term in the laboratories mentioned below are as follows:

THE COLLEGE OF LAW

INCIDENTAL FEE.—An incidental fee of fifteen dollars per year is charged to regular undergraduate students, payable in advance at the beginning of the year.

Upon payment of the incidental fee law students will be admitted to all the privileges of all the other Colleges of the University, upon the same terms as to admission, discipline, character of studies selected, etc., as other students in the University.

TUITION FEE.—In addition to the incidental fee named above, a tuition fee of forty-five dollars per year is charged to regular undergraduate students, payable in advance at the beginning of the year. Students in other Colleges of the University who elect work in the College of Law will be charged such part of the forty-five dollars tuition as is proportioned to the number of hours elected.

GRADUATE FEE.—A graduate fee of thirty dollars per year payable in advance, is charged to all who take the full graduate work.

DIPLOMA FEE.—A fee of five dollars (to cover the expenses of graduation, diplomas, etc.,) is charged to all who take the degree of Bachelor of Laws, and a fee of ten dollars is charged to those taking the degree of Master of Laws. These fees must be paid before the degrees are conferred.

Special students shall be required to arrange their fees satisfactorily with the Dean or Secretary before being admitted.

OTHER EXPENSES

There are two dormitories on the University grounds for the use of students. Each occupant is charged by the University a rent of five dollars a term.

The South Dormitory affords unfurnished rooms to such students as desire to board themselves, and thus to reduce their expenses to a minimum. The expense of living in this way is about two dollars per week. Applications for rooms should be made to the President of the University.

The North Dormitory will accommodate more than sixty students. Board, furnished rooms, fuel, light and washing are, at present prices, supplied for about three dollars and fifty cents a week. Students will be admitted on special recommendation to the President of the University.

Boarding clubs are also formed in the neighborhood of the University. Furnished rooms are rented at seventy-five cents to one dollar a week for each student, and the cost of table-board is two dollars to three dollars a week.

Board with furnished rooms can be obtained in private families, within convenient distances of the University, at rates varying from four dollars to five dollars a week. The ruling rate may be taken as four dollars.

The uniform with which the members of the battalion are required to provide themselves costs (without overcoat) about fourteen dollars. It is quiet in pattern, and is designed to be worn daily in place of civilian dress.

The expenses of a student in the University for a year may be estimated as follows, excluding clothing (except uniform) and traveling expenses:

	Low	Average	High
Incidental fees.....	\$15 00	\$15 00	\$15 00
Laboratory fees.....	15 00	20 00	54 00
Books and stationery.....	15 00	25 00	40 00
Room.....	4 50	37 00	75 00
Furniture.....	10 00	.....	.....
Board.....	70 00	110 00	150 00
Uniform.....	14 00	14 00	14 00
	<u>\$143 50</u>	<u>\$221 00</u>	<u>\$348 00</u>

The second and third estimates for room include light, fuel and care. The third estimate is for a room occupied by a single student. The requirements for laboratory fees and books depend upon the course of study pursued.

SELF-SUPPORT

There is a large amount of work upon the University farm which is assigned to students, preference being given to those who are studying Agriculture. *But the University can not promise work to all applicants.* Many students find work in private families, in offices, and in various occupations, by means of which they defray at least a portion of their expenses. A person of ability and energy, who is master of a trade, or who can do good work of any kind, can generally find remunerative employment. It has seldom been known that any student of ordinary energy and industry was obliged to leave the University because of a lack of money for necessary expenses, *after having been say sixty days on the ground*—or long enough to inform himself as to the opportunities for securing employment. An employment bureau is maintained at the University, where the names of those seeking work and of those desiring workers are recorded.

For further information, address "Executive Office, State University, Columbus, Ohio."

THE COLLEGES

THE COLLEGES

The Colleges

ADMISSION

The University is open on equal terms to both sexes.

The entrance examinations for 1896 will be held on Monday and Tuesday, June 14 and 15, and on Monday and Tuesday, September 13 and 14. A part of the examinations may be taken in June and the remainder in September. Conditions incurred at the June examinations must be removed at the September examinations.

Applicants for admission to the Colleges of Agriculture, of Arts, Philosophy and Science, or of Pharmacy, must be at least sixteen years of age; for admission to the College of Engineering or of Veterinary Medicine must be at least seventeen years of age; for admission to the College of Law must be at least eighteen years of age. Each must be provided with credentials of scholarship from his last instructor or from the last institution with which he has been connected, and with a certificate of good moral character.

There are three modes of admission to the University:

1. Certificates of the preparatory departments of Colleges of approved standing and of Normal schools in Ohio are accepted, if found satisfactory, in lieu of examination for preparatory studies, under the following conditions:

Each certificate must contain a detailed statement of the studies pursued, the text books used, the amount of work done in each study, the amount of time devoted to it, the date of the examination, and the applicant's rank or standing in it. A copy of the course of study should accompany the certificate; and both should be sent to the University not later than the first of September. *The University cannot promise this recognition to those certificates if presented during entrance week.*

Blank certificates will be furnished on application.

Applicants for admission who come from other Colleges or Universities are required to bring certificates of honorable dismissal.

Teachers' certificates (in force) will be accepted at their face value.

2. From time to time the University approves the courses of study in certain High Schools of the State; and the graduates of these High Schools are admitted on presentation of cards issued to them at their graduation by the University through the Principals of the High Schools.

3. All other applicants are subject to examination on the groups of study mentioned below under the headings of those Colleges and Courses in the University which they desire to enter.

Full equivalents for the text-books named will be accepted.

ADMISSION TO SPECIAL STUDIES

Students who desire to pursue special lines of work in any of the Colleges of the University, and do not desire to become candidates for degrees, will be admitted on the following conditions:

1. The regular entrance requirements must be satisfied.
2. But applicants who are not less than twenty-one years of age*, after obtaining credit for elementary or "grade" work, and for such other subjects as may be necessary to qualify them for the classes that they wish to enter, may, on the presentation of satisfactory reasons, be admitted by the proper Faculty to any class in the University; provided, that if any student who has been admitted on these conditions afterwards becomes a candidate for a degree, he shall take the omitted entrance examinations at least twelve months before the degree is conferred.
3. On entering the University, students desiring to pursue special work are required to lay before the proper Faculty, for approval or modification, a written statement of the end they have in view, the studies proposed for the attainment of that end, and the probable period of attendance. Such students will be held as strictly to their accepted schemes of work as are the regular undergraduates to their courses of study.
4. *Permission to enter as special undergraduates will be refused to all who fail to give satisfactory evidence of definiteness of purpose, and will be withdrawn whenever the conditions on which it was granted cease to exist.*

ADMISSION TO ADVANCED STANDING

1. Applicants who do not come from some other University or College must first obtain admission to some College of the University in the manner already described. They will then be examined on the undergraduate studies for which they ask credits.
2. Applicants who come from the collegiate department of an approved College, and who bring explicit and official certificates describing their course of study and scholarship, and also certificates of honorable dismissal, will be admitted without examination except such as may be necessary to determine what credit they are to receive here for work done in the College from which they come.

COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE

FOR ADMISSION¹

The following are the requirements:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar, and United States History.*
2. *English*—Composition and Rhetoric. Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of two essays of about two hundred words each. The first essay will be upon a subject drawn from the candidate's observation or experience; as "A description of my native town," "The most remarkable person I ever met." "My reasons for seeking a University education." The second essay will be upon a subject drawn from the list of classics which will be furnished on application.

* Eighteen years, in the College of Engineering.

¹ An applicant for admission who may be somewhat in arrears in any given subject, will find opportunity to make up this work in the Columbus High Schools, which are fully accredited by the University.

ADMISSION TO GRADUATE WORK

Graduates of this or other institutions may, on application to the Faculty, enter the University and pursue such lines of work as may be arranged or approved by the appropriate collegiate committee. Such graduate students are subject to all the ordinary regulations (as to fees, attendance, etc.) prescribed for undergraduates.

THE HIGHER DEGREES

1. **MASTERS' DEGREES.**—Masters' degrees are conferred upon graduates in Arts, Philosophy, Science, Agriculture, Horticulture and Forestry, and Pharmacy at the end of not less than one year's residence, during which the candidate is required to pursue and complete an approved course of study in the University. He is required in addition to present an acceptable thesis upon some subject connected with his Course of study. Masters' degrees are conferred without residence *upon graduates of this institution*, upon the same conditions of study and thesis as above; but these degrees will not be so conferred within less than three years after graduation. *The incidental fee of five dollars a term is due from candidates studying in absentia as from all other students, and should be forwarded to the Bursar of the University at the beginning of each term.*

2. **DOCTORS' DEGREES.**—The degree of Doctor of Philosophy is conferred upon Bachelors of Arts, Bachelors of Philosophy, and Bachelors of Science at the end of not less than three years' residence and study, during the latter two years of which the candidate is required to pursue and complete an approved Course of study in at least two distinct departments of the University. He is, in addition, required to present an acceptable thesis, embodying original research.

The degree of Doctor of Science is conferred upon Bachelors of Science and graduates in the full technical Courses, at the end of a Course of special, advanced study in science, upon the same conditions as to residence, time, and other requirements as are established for the degree of Doctor of Philosophy.

The proper preparation for this requirement is sustained and regular practice in writing. The pupil should be afforded weekly practice in preparing written exercises—paragraphs, outlines, themes, reproductions and abstracts; and his written work should be corrected by the teacher and revised and rewritten by himself.

The pupil should be familiarized with those principles of Rhetoric which are most likely to help him in his composition work; such as the principles of sentential structure, outlining, paragraphing, and choice of words. The study of specimens of bad English is not recommended; the time usually devoted to this may be better spent in memorizing and reciting notable passages of prose and poetry selected from works read entire by the class. Exercises in speaking from a topical outline previously prepared by the class are recommended for drill in expression and choice of words.

The subjects for the weekly written exercises should be so distributed that the pupil will have practice in the four types—description, narration, exposition and argumentation. Some of these subjects should be taken from English and American classics, prescribed for parallel or subsidiary outside reading by the class; but fully one-half of the subjects upon which the pupil writes during his preparatory course should be drawn from his own observation, and experience, especially subjects in description and narration.

3. *Algebra*—Venable's Easy Algebra, complete.
4. *Botany*—Gray. Lessons and Manual.
5. *Plane Geometry*—Venable, Wentworth, or Wells.
6. *Physics*—Gage, Carhart and Chute, Avery, or Appleton.
7. Either of the following:
Civil Government—Fiske or Thorpe preferred.
History—Myers's General History.

COURSE IN AGRICULTURE

NOTE—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR

REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1) Principles.	5.	Agr'l Chemistry (8) Organic.	5.	Agr'l Chemistry (9) Applications.	5.
Botany (6) Physiological.	5.	Botany (7) Physiological and Economic.	5.	Botany (8) Economic Botany and Vegetable Pathology.	5.
Rhetoric (1) Paragraph Writing.	2.	Rhetoric (1) Theme Writing.	2.	Rhetoric (1) Prose Analysis.	2.
Zoology (1) Systematic.	3.	Zoology (1) Morphology.	3.	Zoology (1) Entomology.	3.
Cadet Service (men). ^a		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

^aA rule of the Board of Trustees requires each male student (except students in the College of Law) to render two years' cadet service as a condition of graduation. Students physically incapacitated for cadet service will be assigned an equivalent in special gymnasium work. The President has authority to excuse from cadet service, under certain conditions.

Young women are required to carry Hygiene and Physical Training in place of cadet service.

SECOND YEAR

REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agriculture (8) Breeds of Live Stock.	4.	Agriculture (9) Principles of Breeding.	4.	Agriculture (10) Stock Feeding.	4.
Agr'l Chemistry (4) Laboratory.	5.	Agr'l Chemistry (4) Laboratory.	5.	Agr'l Chemistry (4) Laboratory.	5.
Horticulture (1) Elements.	4.	Shopwork (1,2) Carpentry, Forging.	3.	Horticulture (1) Elements.	4.
Physiology (1) Anatomy.	5.	Physiology (1) Physiology.	5.	Drawing (2) Lettering.	3.
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

THIRD YEAR

REQUIRED

Agriculture (11) Farm Equipment.	4.	Agriculture (12) Soils.	4.	Agriculture (13) Crops.	4.
French (1) Elementary. or German (1) Elementary.	4.	French (1) Elementary. or German (1) Elementary.	4.	French (1) Elementary. or German (1) Elementary.	4.
Geology (2) General.	5.	Geology (2) General.	5.	Zoology (4) Economic Entomology.	5.
Veterin'y Medicine (28) Anatomy.	5.	Veterin'y Medicine (29) General Pathology.	5.	Veterin'y Medicine (30) Special Pathology.	5.

FOURTH YEAR

REQUIRED

Agriculture (14) Animal Mechanics.	4.	Agriculture (15) Dairy.	4.	Agriculture (16) Rural Economics.	4.
History (5) U. S. Political.	4.	History (5), Economics (1) Political Economy.	4.	Economics (1)	4.

ELECTIVE

Ten hours a week through the year, including two hours for thesis, chosen from any of the courses given in any College of the University upon which the student is qualified to enter; except in the College of Law.

COURSE IN HORTICULTURE AND FORESTRY

FIRST YEAR

REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1) Principles.	5.	Agr'l Chemistry (8) Organic.	5.	Agr'l Chemistry (9) Applications.	5.
Botany (6) Physiological.	5.	Botany (7) Physiological, Economic.	5.	Botany (8) Economic Botany and Vegetable Pathology.	5.
Rhetoric (1) Paragraph Writing.	2.	Rhetoric (1) Theme Writing.	2.	Rhetoric (1) Prose Analysis.	3.
Zoology (1) systematic.	3.	Zoology (1) Morphology.	3.	Zoology (1) Entomology.	3.
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

SECOND YEAR

REQUIRED

Agr'l Chemistry (4) Laboratory.	5.	Agr'l Chemistry (4) Laboratory.	5.	Agr'l Chemistry (4) Laboratory.	5.
French (1) Elementary. or German (1) Elementary.	4.	French (1) Elementary. or German (1) Elementary.	4.	French (1) Elementary. or German (1) Elementary.	4.
Horticulture (1) Elements.	4.	Shopwork (1,2) Carpentry and Forging.	3.	Horticulture (1) Elements.	4.
Physiology (1) Anatomy.	5.	Physiology (1) Physiology.	5.	Zoology (4) Economic Entomology.	5.
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

THIRD YEAR

REQUIRED

Agriculture (11) Farm Equipment.	4.	Agriculture (12) Soils.	4.	Agriculture (13) Crops.	4.
French (2) or German (4)	4.	French (2) or German (1)	4.	French (2) or German (4)	4.
Geology (2) General.	5.	Geology (2) General.	5.	Zoology (1) Economic Entomology.	5.
Horticulture (5) Pomology, Viticulture.	4.	Horticulture (6) Vegetables and Seeds.	4.	Horticulture (7) Small Fruits and Spraying.	4.

ELECTIVE.

Two hours or three hours a week through the year, chosen from any of the courses given in any College of the University upon which the student is qualified to enter; except the College of Law.

FOURTH YEAR

REQUIRED					
FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Horticulture (8) General Floriculture.	2.	Horticulture (9) Commercial Floriculture.	2.	Horticulture (10) Home Floriculture.	2.
Horticulture (11) Arboriculture.	2.	Horticulture (12) Forestry.	2.	Horticulture (13) Landscape Gardening.	2.
History (5) U. S. Political.	4.	History (5), Economics (1) Political Economy.	4.	Economics (1)	4.

ELECTIVE

Ten hours a week through the year, including two hours for thesis, chosen from any of the courses given in any College of the University upon which the student is qualified to enter; except in the College of Law.

COURSE IN DOMESTIC SCIENCE

FIRST YEAR

REQUIRED					
Agr'l Chemistry (1) Principles.	5.	Agr'l Chemistry (8) Organic.	5.	Agr'l Chemistry (9) Applications.	5.
Botany (6) Physiological.	5.	Botany (7) Physiological and Economic.	5.	Botany (8) Economic Botany and Vegetable pathology.	5.
Rhetoric (1) Paragraph Writing.	2.	Rhetoric (1) Theme Writing.	2.	Rhetoric (1) Prose Analysis.	2.
Zoology (1) Systematic.	3.	Zoology (1) Morphology.	3.	Zoology (1) Entomology.	3.
Hygiene and Phys. Train.		Hygiene and Phys. Train.		Hygiene and Phys. Train.	

SECOND YEAR

REQUIRED					
Agr'l Chemistry (4) Laboratory. ^a	5.	Agr'l Chemistry (4) Laboratory. ^a	5.	Agr'l Chemistry (4) Laboratory. ^a	5.
Domestic Science.	4.	Domestic Science.	4.	Domestic Science.	4.
French (1) Elementary. or German (1) Elementary.	4.	French (1) Elementary. or German (1) Elementary.	4.	French (1) Elementary. or German (1) Elementary.	4.
Horticulture (1) Elements or Drawing.	4.	Agriculture (15) Dairying. or Drawing (12) Clay Modelling.	4.	Horticulture (1) Elements. or Shopwork (1) Carpentry and Wood Carving.	4.
Hygiene and Phys. Train.		Hygiene and Phys. Train.		Hygiene and Phys. Train.	

^a Special laboratory work will be provided for students in this course, where necessary.

THIRD YEAR

REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Domestic Science.	4.	Domestic Science.	4.	Domestic Science.	4.
French.* or German.*	} 4.	French.* or German.*	} 4.	French.* or German.*	} 4.
Geology (2) General.	5.	Geology (2) General.	5.	Zoology (4) Economic Entomology.	5.
Physiology (1) Anatomy.	5.	Physiology (1) Physiology.	5.	Drawing. House Designing.	5.

FOURTH YEAR

REQUIRED

Domestic Science.	4.	Domestic Science.	4.	Domestic Science.	4.
Horticulture (8) General Floriculture.	2.	Horticulture (9) Commercial Floriculture.	2.	Horticulture (10) Home Floriculture.	2.

ELECTIVE

ours a week through the year chosen from any of the courses given in any College of the University upon which the student is qualified to enter; except in the College of Law.

THE SHORT COURSES

A two-year course in Agriculture and a two-year course in Domestic Science have been provided for those who have neither the time nor the means to pursue four-year courses. These short courses also enable those who lack the preparation for entering the four-year courses to obtain such preparation. The studies of the first year of the short courses, it will be noticed, nearly prepare the student to enter the first year of the four-year courses. The student having had chemistry in the first year of a short course can finish his preparation for either of the four-year courses during the first year of the latter course, in place of the chemistry required.

At the end of the first year of the Short Course in Agriculture, for example, the student has three strings to his bow. He may finish the second year of the short course by taking the more technical studies from the four-year courses, if lack of time or means demands it; or he may enter either the four-year course in Agriculture or the four-year course in Horticulture and Forestry. The same is practically true of the Short Course in Domestic Science.

These short courses are not, of course, to be compared in breadth, strength, or thoroughness with the full courses of the University. They are far better preparation for the work to which they lead than no preparation, but all students are urged to take or to continue into the full four-year courses wherever possible.

* Following the work of the previous year.

ADMISSION TO THE SHORT COURSES IN AGRICULTURE AND DOMESTIC SCIENCE AND THE COURSE IN DAIRYING

Applicants must be at least fifteen years of age, and unless over twenty-one years of age must pass an examination in *Arithmetic, Geography, Grammar and United States History*, or bring High School or other certificates for those branches. Applicants who are over twenty-one are admitted without examination.

THE SHORT COURSE IN AGRICULTURE

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1) Principles.	5.	Agr'l Chemistry (8) Organic.	5.	Agr'l Chemistry (9) Applications.	5.
Mathematics (1) Algebra.	5.	Mathematics (8) Geometry.	5.	Botany (1) Elementary.	5.
Physics (1) Elementary.	5.	Physics (1) Elementary.	5.	Geology (1) Physical Geography.	5.
Drawing (10) Mechanical.	2.	Shopwork (1, 2) Carpentry, Forging.	3.	Physiology (2) General.	3.
Cadet Service.		Cadet Service.		Cadet Service.	

SECOND YEAR

Not less than fifteen hours per week through the year; chosen from any of the following courses, subject to conditions named under "Departments of Instructions."

Agriculture (8) Breeds of Live Stock.	4.	Agriculture (9) Principles of Breeding.	4.	Agriculture (10) Stock Feeding.	4.
Agriculture (11) Farm Equipment.	4.	Agriculture (12) Soils.	4.	Agriculture (13) Crops.	4.
Botany (6) Physiological.	5.	Agriculture (15) Dairy.	4.	Zoology (7) Entomology.	3.
Horticulture (1) Elements.	4.	Horticulture (1) Elements.	4.	Horticulture (1) Elements.	4.
Veterinary Medicine (28) Anatomy.	5.	Veterinary Medicine (29) General Pathology.	5.	Veterinary Medicine (20) Special Pathology.	5.
Horticulture (5)	4.	Horticulture (6) Physiology (6)	4. 2.	Horticulture (7)	4.
Cadet Service.		Cadet Service.		Cadet Service.	

COURSE IN DAIRYING

The course in dairying begins each year on the Wednesday following the first day of January, and continues during the entire term. Butter-making, as practiced in the farm dairy and in the creamery, is thoroughly taught. The student performs all necessary operations in the manufacture of butter by these two methods, under the guidance of the instructors. In cheese-making the principles are taught, with elementary practice.

Agriculture (5). Dairy Farming.—Two hours each week. Lectures and recitations on breed, breeding, feeding, selection and judging of dairy stock, equipment and management of dairy farms.

Agriculture (6). Butter and Cheese-making.—Four half days each week. Laboratory practice in running separator, churning, working butter, making cheese, milk testing, etc.

Agriculture (7). Butter and Cheese-making.—Two hours each week. Lectures and recitations.

Agricultural Chemistry (7). Milk Chemistry and Milk Testing.—Two hours each week. Lectures and laboratory practice.

Physiology (6). Bacteria in their relation to Milk, Butter and Cheese.—Two hours each week. Lectures and laboratory practice.

Veterinary Medicine (17). Diseases of the Cow.—Three hours each week for six weeks.

Care of the Boiler and Engine.—One lecture each week during six weeks.

SHORT COURSE IN DOMESTIC SCIENCE.

FIRST YEAR

REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1) Principles.	5.	Agr'l Chemistry (8) Organic.	5.	Agr'l Chemistry (9) Applications.	5.
Mathematics (1) Algebra.	5.	Mathematics (7) Geometry.	5.	Botany (1) Elementary.	5.
Physics (1) Elementary.	5.	Physics (1) Elementary.	5.	Geology (1) Physical Geography.	5.
Hygiene and Physical Training. Hygiene and Physical Training. Hygiene and Physical Training.					

SECOND YEAR

REQUIRED

Domestic Science.	4.	Domestic Science.	4.	Domestic Science.	4.
Domestic Science.	4.	Domestic Science.	4.	Domestic Science.	4.
Hygiene and Physical Training. Hygiene and Physical Training. Hygiene and Physical Training.					

ELECTIVE

Not less than seven hours per week chosen from the following courses; subject to conditions named under "Departments of Instruction":

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing	5.	Drawing (12) Clay Modeling.	5.	Shopwork (1) Carpentry and Wood Carv.	5.
Horticulture (1) Elements.	4.	Agriculture (15) Dairying.	5.	Horticulture (1) Elements.	4.
Rhetoric (1) Paragraph Writing.	2.	Rhetoric (1) Theme Writing.	2.	Rhetoric (1) Prose Analysis.	2.
Horticulture (8) General Floriculture.	2.	Horticulture (9) Commercial Floriculture.	2.	Horticulture (10) Home Floriculture.	2.
Botany (6) Physiological.	5.	Botany (7) Physiological and Economic.	5.	Botany (8) Economic Botany and Vegetable Pathology.	5.
Zoology (1) Systematic.	3.	Zoology (1) Morphology.	3.	Zoology (1) Entomology.	3.

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

FOR ADMISSION¹ TO THE COURSE IN ARTS

The following are the requirements:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar, and United States History.*

2. *English*—(a) Composition and Rhetoric. Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of two essays of about two hundred words each. The first essay will be upon a subject drawn from the candidate's observation or experience; as "A description of my native town," "The most remarkable person I ever met," "My reasons for seeking a University education." The second essay will be upon a subject drawn from the list of classics printed below.

The proper preparation for this requirement is sustained and regular practice in writing. The pupil should be afforded weekly practice in preparing written exercises—paragraphs, outlines, themes, reproductions and abstracts; and his written work should be corrected by the teacher and revised and rewritten by himself.

The pupil should be familiarized with those principles of Rhetoric which are most likely to help him in his composition work; such as the principles of sentential structure, outlining, paragraphing, and choice of words, as given in Keeler's English Composition, Hill's Elements of Rhetoric, or Genung's Outlines of Rhetoric. The study of specimens of bad English is not recommended; the time usually devoted to this may be better spent in memorizing and reciting notable passages of prose and poetry selected from works read entire by the class. Exercises in speaking from a topical outline previously prepared by the class are recommended for drill in expression and choice of words.

The subjects for the weekly written exercises should be so distributed that the pupil will have practice in the four types—description, narration, exposition and argumentation. Some of these subjects should be taken from the classics prescribed below and other classics, preferably by the same authors, prescribed for parallel or subsidiary outside reading by the class; but fully one-half of the subjects upon which the pupil writes during his preparatory course should be drawn from his own observation and experience, especially subjects in description and narration.

¹ An applicant for admission who may be somewhat in arrears in any given subject, will find opportunity to make up his work in the Columbus High Schools, which are fully accredited by the University.

(b) English Classics—Questions will be set for the purpose of testing the applicant's knowledge of the subject-matter, form and substance, of the following books; with the plot, purpose, literary style and peculiarities, incidents, and characters of which the applicant should make himself thoroughly familiar.

1897. Shakespeare's *As You Like It*, or *The Merchant of Venice*; Scott's *Marmion*; Longfellow's *Evangeline*; George Eliot's *Silas Marner*; Irving's *Tales of a Traveler*.

1898. Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I and XXII; Goldsmith's *The Vicar of Wakefield*; Southey's *Life of Nelson*; Lowell's *The Vision of Sir Launfal*; Hawthorne's *The House of the Seven Gables*.

These or equivalent texts will require minute and critical study in class during at least one school year. The test here is the pupil's ability to analyze plot and character, to explain words, phrases and figures, to reproduce thought, to point out characteristics of style. Systematic classroom study of the texts themselves is the only adequate preparation. Literary history, literary biography and the comments of professional critics will not serve the purpose. The work in class should be intensive and disciplinary; there the distinction between the reading of literature and the study of classics should be sharply defined. Outside reading of other works, preferably by the same authors, is recommended, and should be prescribed as the basis of part of the composition work; but this general reading and composition work should not be regarded as an adequate substitute for the minute study of the few classics prescribed above, and will not be accepted as preparation for this part of the English requirement.

3. *Algebra*—Wentworth's or Wells's Elements, complete.

4. *Botany*—Kellerman's Elementary Botany.

5. *Civil Government*—Fiske or Thorpe preferred.

6. *Geometry, Plane and Solid*—Venale, Wentworth, or Wells.

7. *Greek*—Grammar (Goodwin's preferred) and Prose Composition; or the first 100 lessons of White's Beginner's Greek Book. Reading: The first three books of Xenophon's *Anabasis*. At least two years should be devoted to this work.

8. *History*—Either Myers's General History (or equivalent); or, if the teacher's training and the school library will warrant, Greek and Roman History on the topical method. A circular concerning the topical method will be sent on application.

9. *Latin*—Pronunciation (the Roman method); Grammar (an exact knowledge of the inflections is essential); Caesar, the first four books of the *De Bello Gallico*; Cicero, six orations, including *Pro Lege Manilia*; Vergil, the first six books of the *Aeneid*, with Prosody; Prose Composition, Daniell or Collar or Jones, entire.

10. *Physics*—Carhart and Chute, Gage, Avery, or Appleton.

For the present, the *Greek* required for admission may be begun at the University, but without University credits.

TO THE LATIN COURSE IN PHILOSOPHY

The requirements are the same as for admission to the Course in Arts; except that instead of *Greek*, the applicant must offer *French* or *German*, as follows:

French—The whole subject of French Grammar. Applicants will be expected to read at sight easy French, and to translate correctly into French, simple English sentences. Two years ought to be given to this study, the first year being spent mainly on the Grammar and the second devoted to reading good modern French. The texts read should be chiefly narrative and conversational prose; modern, rather than classic, dramas should be read.

German—Joynes-Meissner's *German Grammar*, complete; Joynes's *German Reader*, complete; Hauff's *Liechtenstein*, Lessing's *Minna von Barnhelm*, Huss's *Sessenheim* and Buchheim's Goethe's *Dichtung und Wahrheit*.

For the present, the *German* or *French* required for admission may be begun at the University, but without University credits.

TO THE MODERN LANGUAGE COURSE IN PHILOSOPHY

The requirements are the same as for admission to the Course in Arts; except that instead of *Latin* and *Greek*, the applicant may offer *Latin* and *French*, or *Latin* and *German*, or *French* and *German*, in the amounts specified above.

For the present, either the *French* or the *German* (but not both) required for admission may be begun at the University, but without University credits.

TO THE ENGLISH COURSE IN PHILOSOPHY

The requirements are the same as for admission to the Modern Language Course in Philosophy. But in place of one of the foreign languages the applicant may offer the following group:

1. *Chemistry*—Williams or Remsen.

2. *English Literature*—Pancoast's *Introduction to English Literature* and an acquaintance with representative works in each period; or, *English History*—Montgomery.

3. *Physiology*—Martin (briefer course.)

For the present, one modern language required for admission may be begun at the University, but without University credits.

TO THE COURSE IN SCIENCE

The requirements are the same as for admission to the Modern Language Course in Philosophy.

COURSE IN ARTS

NOTE—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

Degree: Bachelor of Arts

FIRST YEAR

FIRST SEMESTER		Credit hours	SECOND SEMESTER		Credit hours
Greek (51)		4.	Greek (52)		4.
Xenophon.			Herodotus, History.		
Latin (51)		4.	Latin (52)		4.
Cato, Cicero.			Livy, Horace		
Mathematics (51, 53)		3.	Mathematics (52, 54)		3.
Trigonometry, Plane Analytics.			Calculus, Algebra.		
Rhetoric (51)		2.	Rhetoric (52)		2.
Paragraph Writing.			Practical Rhetoric.		
Cadet Service (men). ^a			Cadet Service (men).		
Hygiene and Phys Train. (women).			Hygiene and Phys. Train. (women).		

^a A rule of the Board of Trustees requires each male student (except students in the College of Law) to render two years' cadet service as a condition of graduation. Students physically incapacitated for cadet service will be assigned an equivalent in special gymnasium work. The President has authority to excuse from cadet-service, under certain conditions.

Young women are required to carry Hygiene and Physical Training in place of cadet service.

One of the following (the choice being for the year):

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Botany (57) Laboratory.	3.	Botany (58) Laboratory.	3.
General Chemistry (51) Inorganic.	3.	General Chemistry (52) Inorganic.	3.
Physics (51) Mechanics, Heat, etc.	3.	Physics (52) Electricity, Magnetism, etc.	3.
Zoology (51) Comparative Zoology.	3.	Zoology (52) Comparative Zoology.	3.

SECOND YEAR

Greek (53) Lysias.	4.	Greek (54) Homer.	4.
†History (55) United States or †Economics (51) Elementary.	4.	History (56) United States or Economics (52) Elementary.	4.
Latin (53) Horace, Pliny.	4.	Latin (54) Tacitus, Juvenal.	4.
†Rhetoric (53) Analysis of Prose or †English Literature (51) Introductory.	4.	Rhetoric (54) Analysis of Prose or English Literature (52) Introductory.	4.
Cadet Service (men). Hygiene and Phys. Train. (women).		Cadet Service (men). Hygiene and Phys. Train. (women).	

THIRD YEAR

Philosophy (51) Psychology.	4.	Philosophy (52) Logic and Ethics.	4.
*Major Study.	4.	Major Study.	4.

ELECTIVE

Eight hours a week through the year—any subject upon which the student is qualified to enter, taught in any College of the University except the College of Law.

FOURTH YEAR

*Major Study.	5.	Major Study.	5.
Electives (as in third year).	10.	Electives (as in third year).	

*Major Study. Not later than the beginning of the Third Year, each student shall elect a Major Study in one department, or with the consent of the professors in charge, in allied departments. To the Major Study he shall devote not less than four nor more than ten hours a week during the third year, and not less than five nor more than ten during the fourth year. With the approval of the proper authority, the Major Study may be entered upon in the Second Year, an equivalent amount of the required work of that year, not in the line of the Major Study, being postponed to the third year; but the amount so postponed shall not exceed four hours a week. In this case, the elective work of the third year will be reduced by a like amount.

†The subject not taken the first semester will be taken the second.

ENGLISH COURSE IN PHILOSOPHY

Degree: Bachelor of Philosophy

FIRST YEAR

Same as the Course in Arts, with Latin and Greek replaced by the following:

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
English Language (51) Old English.	2.	English Language (52) Old English.	2.
French (51) Elementary or German (51) Elementary	4.	French (52) Prose and Plays or German (52) Elementary	4.
History (51) European.	3.	History (52) European.	3.

SECOND YEAR

Same as the Course in Arts, with Latin and Greek replaced by the following:

Philosophy (53)	3.	Philosophy (54)	3.
Elocution and Oratory (51)	2.	Elocution and Oratory (52)	2.

THIRD YEAR

Same as the Course in Arts, with Philosophy (51) (52) replaced by the following:

Philosophy (55)	3.	Philosophy (56)	
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FOURTH YEAR

Same as the Course in Arts.

COURSE IN GENERAL SCIENCE

Degree: Bachelor of Science

FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Botany (55) Systematic.	4.	Zoology (64) Comparative.	4.
French (51) Elementary or German (51) Elementary.	4.	French (52) Prose and Plays or German (52) Elementary.	4.
General Chemistry (51) Inorganic.	3.	General Chemistry (52) Inorganic.	3.

FIRST YEAR—Concluded

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Mathematics (51), (53), (65) Trigonometry and Analytics or Mathematics (55), (57) Trigonometry and Algebra.	4. 5.	Mathematics (52), (54), (66) Calculus and Algebra or Mathematics (56), (58) Algebra and Analytics.	4. 5.
Rhetoric (51) Paragraph Writing.	2.	Rhetoric (52) Practical Rhetoric.	2.
Cadet Service (men).		Cadet Service (men).	
Hygiene and Phys. Train. (women)		Hygiene and Phys. Train. (women).	

SECOND YEAR

†French or †German.	4.	French or German.	4.
Physics (51) Mechanics, Heat, etc.	3.	Physics (52) Electricity, Magnetism, etc.	3.
Physiology (51) Human Anatomy.	5.	Rhetoric (54) Analysis of Prose.	4.
Cadet Service (men) Hygiene and Phys. Train. (women).		Cadet Service (men) Hygiene and Phys. Train. (women).	

Together with one of the following subjects, to be continued through the year:

(a) Botany (59), (60), each four hours credit for a semester. (b) General Chemistry (53), (54), each five hours credit. (c) Geology (51), (52), and Metallurgy (52). (Geology running for two-thirds of the year and Metallurgy for one-third; total, five hours credit for the year). (d) Mathematics (59), (61), (60), (62), each five hours credit for a semester. (e) Zoology (53), (54), each three hours credit, or (55), (56), each five hours credit.

THIRD YEAR

†Geology (if not taken the 2d year) General, or †French or German	5. 4.	Geology (if not taken the 2d year) General, and Astronomy (52) General, or Astronomy (54) Mathematical.	5. 5.
Philosophy (53)	3.	Philosophy (54)	3.
*Major Study	4.	Major Study	4.

Elective: Four hours a week through the year, any subject upon which the student is qualified to enter, taught in any College of the University except the College of Law.

Students intending to make Mathematics a specialty will take French or German the First Semester and Mathematical Astronomy the Second Semester. All other students will take Geology and General Astronomy.

*Major Study. Not later than the beginning of the Third Year, each student shall elect a Major Study in Mathematics or in Science in which Laboratory instruction is given. This Major Study shall be in one department, or with the consent of the professors in charge, in two allied departments. To the Major Study, the student shall devote not less than four nor more than ten hours a week during the Third Year, and not less than five nor more than ten hours a week during the Fourth Year.

† In the Second Semester, Geology is followed by Astronomy, which occupies the last nine weeks of the Semester.

‡ It is desired that the student, on completing this course, shall possess a good reading knowledge of both French and German. Therefore the student entering on both French and German will take both languages in the University, each for one year. He who enters on one Modern Language will continue that language one year, in case he cannot read easy prose at sight, and take the other language for one year. In case a reading knowledge of one Modern Language is possessed, the student will take the other language two years. The third year of Language in the case of students making the Mathematics a specialty will be that language of which the student has the less knowledge.

FOURTH YEAR

	Credit hours	
Economics (51) or (52) Major Study	4. } 5. }	Both Semesters.

Electives: Sufficient to make the work of each term not less than fifteen nor more than eighteen hours.

LATIN COURSE IN PHILOSOPHY

Degree: Bachelor of Philosophy

This course is the same as the Course in Arts, except that French or German replaces Greek, as follows:

FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
French (51) Elementary or German (51) Elementary.	4. 4.	French (52): Prose and Plays or German (52) Elementary.	4. 4.

SECOND YEAR

French (55) Modern Literature. or German (55) Literature.	4. 4.	French (56) Modern Literature. or German (56) Lyrics.	4. 5
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MODERN LANGUAGE COURSE IN PHILOSOPHY

Degree: Bachelor of Philosophy

This Course is the same as the Course in Arts with the French and German mentioned in the Latin Philosophy Course replacing Latin and Greek.

THE SPECIAL COURSES

The University authorities offer these courses for the benefit of those who for any reason are not able to carry the regular work of the Colleges. Persons of mature years, and some others, who simply desire to increase their earning power or their chances of promotion, and have neither the time nor the means for thorough education and broad culture, have certain claims on the University which it is not at all inclined to neglect or deny. But these Special Courses are not to be compared in breadth, strength, or thoroughness with the full courses of the University. They are intended to be helpful to those who need this kind of assistance, or who are so unfortunately situated that they can accept no other. They are far better preparation for the work to which they lead than no preparation; but they must not be considered as substitutes for regular work with full time.

COURSE PREPARATORY TO LAW AND TO JOURNALISM.

FOR ADMISSION

The requirements for admission to any of the Courses in the College of Arts, Philosophy and Science: except that the applicant for admission must be not less than eighteen years of age, must be of more than ordinary maturity of character, and must have and exhibit a definite purpose in the line of this course.

FIRST YEAR

FIRST SEMESTER	Credit Hours	SECOND SEMESTER	Credit Hours
English Literature (51) Introductory.	4.	Economics (52) Elements.	4.
Elocution and Oratory (51)	2.	Elocution and Oratory (52)	2.
History (51) European.	3.	History (52) European.	3.
Philosophy (53) Psychology.	3.	Philosophy (54) Logic.	3.
Rhetoric (51) Paragraph Writing.	2.	Rhetoric (52) Practical Rhetoric	2.
Science, Elective	3.	Science, Elective	3.
Cadet Service.		Cadet Service.	
Hygiene and Phys. Training (women).		Hygiene and Phys. Training (women).	

SECOND YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Economics (55) Practical Problems.	2.	Economics (56) Industrial and Social Reforms.	2.
English Literature (61) or (63) Prose.	2.	English Literature (62) or (64) Literature.	3.
History (53) England.	3.	History (54) England.	3.
History (55) United States.	4.	Political Science (54) Institutions of the U. S.	3.
Political Science (51) International Law.	2.	Political Science (52) Municipal Government.	2.
Rhetoric (55) Newspaper Work.	1.	Rhetoric (54) Analysis of Prose.	4.
Rhetoric (57) Brief-making and Argument.	3.	Rhetoric (56) Newspaper Work.	1.
Cadet Service (men).		Cadet Service (men).	
Hygiene and Phys. Training (women).		Hygiene and Phys. Training (women).	

COURSE PREPARATORY TO THE STUDY OF MEDICINE

FOR ADMISSION

Applicants must be at least seventeen years old, and must pass in *Grammar, Geography, Arithmetic, Algebra, (through quadratics), plane and solid Geometry Physics, Rhetoric, U. S. History, and Botany; and either Astronomy, Civil Government or General History.*

FIRST YEAR

Botany (53) Systematic and Physiological.	4.	Botany (56) ($\frac{1}{2}$ Semester) Medical.	1.
Latin (59) Pharmaceutical.	5.	Latin (60) Pharmaceutical.	5.
Physics (51) Mechanics, Heat, etc.	3.	Physics (52) Electricity, Magnetism, etc.	3.
		Physics (58) Laboratory.	2.
		Physiology (58) ($\frac{1}{2}$ Semester) Microscopy.	1.
Rhetoric (51) Paragraph writing.	2.	Rhetoric (52) Analysis of Prose.	2.
Zoology (51) Comparative.	3.	Zoology (52) Comparative.	3.
Cadet service (men).		Cadet Service (men).	
Hygiene and Phys. Training (women).		Hygiene and Phys. Training (women).	

SECOND YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
French (51) Elementary or German (51) Elementary.	4.	French (52) Prose and plays or German (52) Elementary.	4.
General Chemistry (51) Inorganic.	3.	General Chemistry (52) Inorganic.	3.
Physiology (51) Human Anatomy.	5.	Rhetoric (54) Prose Analysis.	4.
Zoology (55) Comparative Anatomy.	5.	Zoology (56) Comparative Anatomy.	5.
Cadet Service (men)		Cadet Service (men).	
Hygiene and Phys. Training (women).		Hygiene and Phys. Training (women).	

THIRD YEAR

French (53) Science Reading. or German (53) Science Reading.	2.	French (54) Science Reading or German (54) Science Reading. or Economics (52) Political Economy.	2.
Economics (51) Political Economy.	4.	Philosophy (52) Logic and Ethics.	4.
Philosophy (51) Psychology.	4.	Pharmacy (52) General Laboratory.	5.
Pharmacy (51) General.	3.	Physiology (56) Laboratory.	5.
Physiology (55) Laboratory.	5.		

THE COLLEGE OF ENGINEERING

FOR ADMISSION TO THE FOUR-YEAR COURSES, AND TO THE COURSE IN
ARCHITECTURE¹

The following are the requirements:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar, and United States History.*
2. *English*—(a) Composition and Rhetoric. Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of two essays of about two hundred words each. The first essay will be upon a subject drawn from the candidate's observation or experience; as "A description of my native town," "The most remarkable person I ever met," "My reasons for seeking a University education." The second essay will be upon a subject drawn from a list of classics which will be furnished on application.

The proper preparation for this requirement is sustained and regular practice in writing. The pupil should be afforded weekly practice in preparing written exercises—paragraphs, outlines, themes, reproductions and abstracts; and his written work should be corrected by the teacher and revised and rewritten by himself.

¹ An applicant for admission who may be somewhat in arrears in any given subject, will find opportunity to make up this work in the Columbus High Schools, which are fully accredited by the University.

The pupil should be familiarized with those principles of Rhetoric which are most likely to help him in his composition work; such as the principles of sentential structure, outlining, paragraphing, and choice of words. The study of specimens of bad English is not recommended; the time usually devoted to this may be better spent in memorizing and reciting notable passages of prose and poetry selected from works read entire by the class. Exercises in speaking from a topical outline previously prepared by the class are recommended for drill in expression and choice of words.

The subjects for the weekly written exercises should be so distributed that the pupil will have practice in the four types—description, narration, exposition and argumentation. Some of these subjects should be taken from the classics prescribed below and from other classics, preferably by the same authors, prescribed for parallel or subsidiary outside reading by the class; but fully one-half of the subjects upon which the pupil writes during his preparatory course should be drawn from his own observation and experience, especially subjects in description and narration.

(b) English Classics—Questions will be set for the purpose of testing the applicant's knowledge of the subject-matter, form and substance, of the following books; with the plot, purpose, literary style and peculiarities, incidents, and characters of which the applicant should make himself thoroughly familiar.

1897. Shakespeare's *As You Like It*, or *The Merchant of Venice*; Scott's *Marmion*; Longfellow's *Evangeline*; George Eliot's *Silas Marner*; Irving's *Tales of a Traveler*.

1898. Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I and XXII; Goldsmith's *The Vicar of Wakefield*; Southey's *Life of Nelson*; Lowell's *The Vision of Sir Launfal*; Hawthorne's *The House of the Seven Gables*.

These or equivalent texts will require minute and critical study in class during at least one school year. The test here is the pupil's ability to analyze plot and character, to explain words, phrases and figures, to reproduce thought, to point out characteristics of style. Systematic classroom study of the texts themselves is the only adequate preparation. Literary history, literary biography and the comments of professional critics will not serve the purpose. The work in class should be intensive and disciplinary; there the distinction between the reading of literature and the study of classics should be sharply defined. Outside reading of other works, preferably by the same authors, is recommended, and should be prescribed as the basis of part of the composition work; but this general reading and composition work should not be regarded as an adequate substitute for the minute study of the few classics prescribed above, and will not be accepted as preparation for this part of the English requirement.

3. *Algebra*—Wentworth's or Wells's Elements, complete.

4. *Civil Government*—Fiske or Thorpe preferred.

5. *Geometry, Plane and Solid*—Venable, Wentworth, or Wells.

6. *History*—Myers's General History.

7. *Latin*—Pronunciation (the Roman method); Grammar (an exact knowledge of the inflections is essential); Caesar, the first four books of the *De Bello Gallico*.

Or *French*—The whole subject of French Grammar. Applicants will be expected to read at sight easy French, and to translate correctly into French, simple English sentences. Two years ought to be given to this study, the first year being spent mainly on the Grammar and the second devoted to reading good modern French. The texts read should be chiefly narrative and conversational prose; modern, rather than classic, dramas should be read.

Or *German*—Joynes-Meissner's German Grammar, complete; Joynes's German Reader, complete; Hauff's *Lichtenstein*, Lessing's *Minna von Barnhelm*, Huss's *Sessenheim* and Buchheim's Goethe's *Dichtung und Wahrheit*.

For the present, the *German* or *French* required for admission may be begun at the University, but without University credits.

8. *Physics*—Gage, Carhart and Chute, Avery or Appleton, complete.

COURSE IN CIVIL ENGINEERING

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. A full description of department work follows this statement of

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1) Freehand.	2.	Drawing (1) Freehand.	2.	Drawing (2) Lettering.	3.
French (1) or German (1)	4.	French (1) or German (1)	4.	French (1) or German (1)	4.
Gen. Chemistry (7) Inorganic.	5.	Gen. Chemistry (7) Inorganic.	5.	Metallurgy (2) Mineralogy.	3.
Mathematics (14) Trigonometry.	5.	Mathematics (15), (16) Trig. and Algebra.	2, 3.	Mathematics (17) Plane Analytics.	5.
Rhetoric (1) Paragraph Writing.	2.	Rhetoric (1) Theme Writing.	2.	Rhetoric (1) Prose Analysis.	2.
Cadet Service.*		Cadet Service.		Cadet Service.	

SECOND YEAR

Civil Engineering (1) Surveying.	6.	Civil Engineering (4) C. E. Drawing.	4.	Civil Engineering (2) Surveying.	6.
Drawing (3) Projections.	3.	Drawing (3) Descriptive Geometry.	5.	Drawing (3) Shades, Shadows and Per.	3.
Mathematics (18) Space Analy. and Calculus.	5.	Mathematics (19) Calculus.	5.	Mathematics (20) Calculus.	5.
Physics (2) Mechanics and Heat.	3.	Physics (2) Electricity and Magnetism.	3.	Physics (2) Light and Sound.	3.
Cadet Service.		Cadet Service.		Cadet Service.	

VOLUNTARY

French (3)	2.	or German (2) Each for the year	2.	or Rhetoric (4)	2.
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THIRD YEAR

Civil Engineering (3) Surveying.	4.	Civil Engineering (5) C. E. Drawing.	3.	Astronomy (2) Mathematical.	4.
Geology (2) General.	5.	Civil Engineering (6) Stereotomy.	4.	Civil Engineering (7) Bridge Strains.	5.
Mathematics (8) Least Squares.	2.	Geology (2) General.	5.	Drawing (7) Photography.	2.
Mech. Engineering (6) Mechanics.	5.	Mech. Engineering (6) Mechanics.	5.	Mech. Engineering (7) Strength of Materials.	5.
Rhetoric (3) Advanced.	2.	Rhetoric (3) Advanced.	2.	Rhetoric (3) Advanced.	2.

* A rule of the Board of Trustees requires each male student (except students in the College of Law) to render two years' cadet service as a condition of graduation. Students physically incapacitated for cadet service will be assigned an equivalent in special gymnasium work. The President has authority to excuse from cadet service, under certain conditions.

FOURTH YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Astronomy (2) Mathematical.	4.	Civil Engin'g (16) or (17) Masonry, Railways.	5.	Civil Engineering (18) Water Supply.	5.
Civil Engineering (8) Bridge Designing.	5.	Civil Engineering (14) Testing Laboratory.	2.	Civil Engineering (10) Sanitary Engineering.	5.
Civil Engineering (15) Masonry.	5.	Elec. Engineering (5) Laboratory.	3.	Law of Contracts	5.
Elec. Engineering (5) Laboratory.	3.	Geology (3) Economic.	5.		
		Mech. Engineering (17) Laboratory.	3.		

THESIS

As a requisit for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of this study must lie within the field of Civil Engineering. The subject must be announced to the President of the University (dependent upon the approval of the head of the Department) not later than the beginning of the second term of the Senior Year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

COURSE IN CLAY-WORKING AND CERAMICS

FIRST YEAR

Drawing (1) Freehand.	2.	Drawing (1) Freehand.	2.	Drawing (2) Lettering.	3.
Gen. Chemistry (7) Inorganic.	5.	Gen. Chemistry (7) Inorganic.	5.	Metallurgy (2) Mineralogy.	3.
German (1) Elementary.	4.	German (1) Elementary.	4.	German (1) Elementary.	4.
Mathematics (14) Trigonometry.	5.	Mathematics (15) or (16) Trigonometry and Algebra.	2, 3.	Mathematics (17) Plane Analytics.	5.
Rhetoric (1) Paragraph Writing.	2.	Rhetoric (1) Theme Writing.	2.	Rhetoric (1) Prose Analysis.	2.
Cadet Service.		Cadet Service.		Cadet Service.	

SECOND YEAR

Ceramics (1)	5.	Ceramics (2) (Chemical Laboratory extending through year)	5.	Ceramics (3)	5.
Drawing (3) Projections.	3.	Drawing (3) Descriptive Geometry.	3.	Drawing (3) Shades, Shadows and Per.	3.
Mathematics (18) Analytics and Calculus.	5.	Mathematics (19) Calculus.	5.	Mathematics (20) Calculus.	5.
Physics (2) Mechanics and Heat.	3.	Physics (2) Electricity and Magnetism.	3.	Physics (2) Light and Sound.	3.
Shopwork (1) Woodwork.	2.	Shopwork (2) Forging.	2.	Shopwork (4) Chipping and Filling.	2.
Cadet Service.		Cadet Service.		Cadet Service.	

VOLUNTARY

French (3)	2.	or German (2) Each through the year	2.	or Rhetoric (4)	2.
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THIRD YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Ceramics (4) General Principles.	5.	Ceramics (5) Bricks.	5.	Ceramics (6) Pottery.	5.
Mine Engin'g (4) Mine Surveying.	5.	Ceramics (7) Advanced Chemical Laboratory Work.	5.	Ceramics (8) Advanced Chemical Laboratory Work.	5.
Mech. Engineering (6) Analytic Mechanics.	5.	Mech. Engineering (6) Analytic Mechanics.	5.	Mech. Engineer'g (7) Strength of Materials.	5.
Rhetoric (3) Advanced.	2.	Rhetoric (3) Advanced.	2.	Rhetoric (3) Advanced.	2.

FOURTH YEAR

Ceramics (9) Manufacture of Bodies.	5.	Ceramics (10) Glasses and Glazes.	5.	Ceramics (11) Enamels and Colors.	5.
Drawing (7) Photography.	2.	Ceramics (12) Cement.	5.	Ceramics (14) Reports on Clay Prop.	5.
Geology (2) General.	5.	Ceramics (13) Ceramic Construction.	2.	Ceramics (15) Thesis Work.	5.
Metallurgy (4) Fuels and Iron.	5.	Geology (3) Economic.	5.		

THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of this study must lie within the field of Ceramic Engineering. The subject must be announced to the President of the University (dependent upon the approval of the head of the Department), not later than the beginning of the second term of the Senior Year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

COURSE IN ELECTRICAL ENGINEERING

FIRST YEAR

Drawing (1) Freehand.	1.	Drawing (1) Freehand.	1.	Drawing (2) Lettering.	2.
French (1) or German (1)	4.	French (1) or German (1)	4.	French (1) or German (1)	4.
Gen. Chemistry (7) Inorganic.	5.	Gen. Chemistry (7) Inorganic.	5.	Shopwork (1, 2) Carpentry and Forging.	4.
Mathematics (14) Trigonometry.	5.	Mathematics (15), (16) Trigonometry and Algebra.	2, 3.	Mathematics (17) Plane Analytics.	5.
Rhetoric (1) Paragraph Writing.	2.	Rhetoric (1) Theme Writing.	2.	Rhetoric (1) Prose Analysis.	2.
Cadet Service.		Cadet Service.		Cadet Service.	

SECOND YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (3) Projections.	3.	Drawing (3) Descriptive Geometry.	3.	Drawing (3) Shades, Shadows and Per.	3.
Mathematics (18) Analytics and Calculus.	5.	Mathematics (19) Calculus.	5.	Mathematics (20) Calculus.	5.
Physics (2) Mechanics.	3.	Physics (2) Electricity, Magnetism.	3.	Physics (2) Light, Sound.	3.
Physics (3) Problems.	2.	Physics (3) Problems.	2.	Physics (3) Problems.	2.
		Physics (5) Laboratory.	3.	Physics (5) Laboratory.	3.
Rhetoric (8) Advanced.	2.	Rhetoric (3) Advanced.	2.	Rhetoric (3) Advanced.	2.
Shopwork (4) Chipping and Filing.	2.				
Cadet Service.		Cadet Service.		Cadet Service.	

VOLUNTARY

French (3)	2.	or German (2) Each for the year	2.	or Rhetoric (4)	2.
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THIRD YEAR

Drawing (5) Technical.	3.	Shopwork (5), (6) Machinery.	4.	Mech. Engineering (8) Thermodynamics.	5.
Mathematics (11) Differential Equations.	1.	Mech. Engineering (3) Mechanism.	5.	Mech. Engineering (16) Laboratory.	4.
Mech. Engineering (6) Mechanics.	5.	Mech. Engineering (6) Mechanics.	5.	Mech. Engineering (7) Strength of Materials.	5.
Physics (6) Laboratory.	5.	Physics (6) Laboratory.	5.	Physics (6) Laboratory.	5.
Physics (4) Electricity and Magnetism.	3.				

FOURTH YEAR

Elec. Engineering (2) Elec. Machinery.	5.	Elec. Engineering (2) Elec. Machinery.	5.	Elec. Engineering (2) Elec. Machinery.	5.
Elec. Engineering (3) Designing and Drawing.	3.	Elec. Engineering (8) Designing and Drawing.	3.	Elec. Engineering (3) Designing and Drawing.	3.
Elec. Engineering (4) Laboratory.	5.	Elec. Engineering (4) Laboratory and Thesis.	5.	Elec. Engineering (4) Laboratory and Thesis.	5.
Mech. Engineering (9) Prime Movers.	5.	Mech. Engineering (10) Machinery.	5.	Mech. Engineering (19) Machine Design.	5.

THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of such study must lie within the field of Electrical Engineering. The subject must be announced to the President of the University (dependent upon the written approval of the head of the department) not later than the beginning of the second term of the Senior Year.

COURSE IN INDUSTRIAL ARTS

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1) Freehand.	1.	Drawing (1) Freehand.	1.	Drawing (1) Freehand.	1.
Drawing (8) Geometric.	2.	Drawing (8) Projections.	2.	Drawing (2) Lettering.	2.
Mathematics (14) Plane Trigonometry.	5.	Mathematics (15), (16) Higher Trig. and Algebra.	2, 3.	Mathematics (17) Plane Analytics.	5.
Rhetoric (1) Paragraph Writing.	2.	Rhetoric (1) Theme Writing.	2.	Rhetoric (1) Prose Analysis.	2.
Shop Work (1) Carpentry and Pattern Making.	3.	Shop Work (1) Carpentry and Pattern Making.	3.	Shop Work (1) Carpentry and Pattern Making.	3.
Cadet Service.		Cadet Service.		Cadet Service.	

Electives, three to five hours,—any work upon which the student is qualified to enter, in any College except the College of Law.

SECOND YEAR

Drawing (3) Mechanical.	3.	Drawing (3) Mechanical.	3.	Drawing (3) Mechanical.	3.
Physics (2) Mechanics and Heat.	3.	Physics (2) Electricity.	3.	Physics (2) Sound and Light.	3.
Rhetoric (3) Advanced.	2.	Rhetoric (3) Advanced.	2.	Rhetoric (3) Advanced.	2.
Shop Work (2) Forging.	3.	Shop Work (2) Forging.	3.	Shop Work (3) Foundry.	3.
Cadet Service.		Cadet Service.		Cadet Service.	

Electives, six to eight hours,—any work upon which the student is qualified to enter, in any College except the College of Law.

THIRD YEAR

Drawing (5) Technical.	3.	Industrial Arts (2) Tech. Drawing.	3.	Industrial Arts (2) Tech. Drawing.	3.
Industrial Arts (1) Tools and Machines.	3.	Industrial Arts (1) Tools and Machines.	4.	Industrial Arts (1) Tools and Machines.	3.
Shop Work (4) Chipping and Filing.	3.	Shop Work (5) Machine Work.	3.	Shop Work (5) Machine Work.	3.

Electives, eight to ten hours,—any work upon which the student is qualified to enter, in any College except the College of Law.

FOURTH YEAR

Industrial Arts (3) Shop Equipment.	3.	Industrial Arts (3) Shop Appliances.	3.	Industrial Arts (3) Shop Management.	3.
Industrial Arts (4) Tech. Drawing.	3.	Industrial Arts (4) Tech. Drawing.	3.	Industrial Arts (4) Tech. Drawing.	3.
Shop Work (6) Machine Work.	3.	Shop Work (6) Machine Work.	3.	Shop Work (6) Machine Work.	3.

Electives, eight to ten hours,—any work upon which the student is qualified to enter, in any College except the College of Law. At some time during the Course, the student must elect in Chemistry the equivalent of at least five hours for two terms.

THESIS

As a requisite for graduation, each candidate must present an acceptable thesis embodying the results of a special study. The subject of such study must lie within the field of Industrial Arts. The subject must be announced to the President of the University (dependent upon the written approval of the head of the department) not later than the beginning of the second term of the Senior Year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

COURSE IN MECHANICAL ENGINEERING

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1) Freehand.	2.	Drawing (1) Freehand.	2.	Drawing (2) Lettering.	3.
French (1) } or German (1) }	4.	French (1) } or German (1) }	4.	French (1) } or German (1) }	4.
Gen. Chemistry (7) Inorganic.	5.	Gen. Chemistry (7) Inorganic.	5.	Shopwork (1) Carpentry and Pattern Making.	4.
Mathematics (14) Trigonometry.	5.	Mathematics (15) (16) Trigonometry & Algebra.	2, 3	Mathematics (17) Plane Analytics.	5.
Rhetoric (1) Paragraph Writing.	2.	Rhetoric (1) Theme Writing.	2.	Rhetoric (1) Prose Analysis.	2.
Cadet Service.		Cadet Service.		Cadet Service.	

SECOND YEAR

Drawing (3) Projections.	3.	Drawing (3) Des. Geometry.	3.	Drawing (3) Shades, Shadows & Per.	3.
Mathematics (18) Analytics and Calculus.	5.	Mathematics (19) Calculus.	5.	Mathematics (20) Calculus.	5.
Physics (2) Mechanics and Heat.	3.	Physics (2) Electricity and Magnetism.	3.	Physics (2) Sound and Light.	3.
		Physics (7) Laboratory.	2.	Physics (7) Laboratory.	3.
Rhetoric (3) Advanced.	2.	Rhetoric (3) Advanced.	2.	Rhetoric (3) Advanced.	2.
Shopwork (2, 3) Forging and Foundry.	5.	Shopwork (4) Chipping.	3.	Shopwork (5) Machine work.	3.
Cadet Service.		Cadet Service.		Cadet Service.	

VOLUNTARY.

French (3)	2.	or German (2)	2.	or Rhetoric (4)	2.
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Each for the year.

THIRD YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit- hours
Drawing (5) Technical.	3.	Mec. Engineering (6) Mechanics.	5.	Drawing (7) Photography.	2.
Mathematics (11) Differential Equations.	1.	Mec. Engineering (23) Timber and Masonry.	3.	Civil Engineering (19) Bridge Strains.	5.
Mec. Engineering (6) Mechanics.	5.	Mec. Engineering (3) Mechanism.	5.	Mec. Engineering (7) ¹ Strength of Materials.	5.
Metallurgy (4) Useful Metals.	5.	Metallurgy (4) Useful Metals.	2.	Mec. Engineering (8) Thermodynamics.	5.
Shopwork (6) Machine Work.	3.	Shopwork (6) Machine Work.	4.	Mec. Engineering (3) Mechanism.	2.
Mec. Engineering (12) Laboratory.	2.				

FOURTH YEAR

Elec. Engineering (5) Laboratory.	3.	Elec. Engineering (5) Laboratory.	3.	Elec. Engineering (5) Laboratory.	3.
Mec. Engineering (13) Laboratory.	5.	Industrial Arts (5) Shop Appliances.	2.	Mec. Engineering (19) Machine Design.	5.
Mec. Engineering (9) Prime Movers.	5.	Mec. Engineering (10) Machinery.	5.	Mec. Engineering (15) Laboratory.	3.
		Mec. Engineering (14) Laboratory.	2.	Mec. Engineering (20) Hydraulic Mach.	2.
Mec. Engineering (18) Mach. Design.	5.	Mec. Engineering (18) Mach. Design.	5.	Mec. Engineering (21) Thesis Work.	5.

THESIS

As a requisite for graduation, each candidate must present an acceptable thesis embodying the results of a special study. The subject of such study must lie within the field of Mechanical Engineering. The subject must be announced to the President of the University (dependent upon the written approval of the head of the department) not later than the beginning of the second term of the Senior Year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

COURSE IN MINE ENGINEERING

FIRST YEAR

French (1) or German (1)	} 4.	French (1) or German (1)	} 4.	French (1) ¹ or German (1)	} 4.
General Chemistry (7) Inorganic.	5.	General Chemistry (7) Inorganic.	5.	Metallurgy (2) Mineralogy.	3.
Mathematics (14) Trigonometry.	5.	Mathematics (15) (16) Trigonometry and Algebra.	2, 3.	Mathematics (17) Plane Analytics.	5.
Rhetoric (1) Paragraph Writing.	2.	Rhetoric (1) Theme Writing.	2.	Rhetoric (1) Prose Analysis.	2.
Cadet Service.		Cadet Service.		Cadet Service.	

SECOND YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1) Freehand.	2.	Drawing (1) Freehand.	2.	Drawing (2) Lettering.	3.
Drawing (3) Projections.	3.	Drawing (3) Descriptive Geometry.	3.	Drawing (3) Shades, Shadows and Per.	3.
Mathematics (18) Analytics and Calculus.	5.	Mathematics (19) Calculus.	5.	Mathematics (20) Calculus.	5.
Metallurgy (5) Laboratory.	5.	Metallurgy (5) Laboratory.	5.	Metallurgy (5) Laboratory.	5.
Physics (2) Mechanics and Heat.	3.	Physics (2) Electricity and Magnetism.	3.	Physics (1) Light and Sound.	3.
Shopwork (1) Woodwork.	2.	Shopwork (2) Forging.	2.	Shopwork (4) Chipping and Filing.	2.
Cadet Service.		Cadet Service.		Cadet Service.	
VOLUNTARY					
French (3)	2.	or German (2) Each for the year.	2.	or Rhetoric (4)	2.

THIRD YEAR

Mech. Engineering (6) Mechanics.	5.	Mech. Engineering (6) Mechanics.	5.	Mech. Engineering (7) Strength of Materials.	5.
Metallurgy (4) Useful Metals.	5.	Metallurgy (4) Useful Metals.	5.	Civil Engineering (19) Bridge Strains.	5.
Mine Engineering (1) Mine Surveying.	5.	Metallurgy (6) Assaying.	5.	Metallurgy (3) Deter. Mineralogy.	5.
Rhetoric (3) Advanced.	2.	Rhetoric (3) Advanced.	2.	Rhetoric (3) Advanced.	2.

FOURTH YEAR

Elec. Engineering (5) Laboratory.	3.	Elec. Engineering (5) Laboratory.	3.	Elec. Engineering (5) Laboratory.	3.
Geology (2) General.	5.	Geology (2) General.	5.	Mine Engineering (6) Plans and Specifications.	5.
Metallurgy (7) Metal Construction.	3.	Geology (3) Economic.	5.	Mine Engineering (5) Mine Engineering.	5.
Mine Engineering (5) Mine Engineering.	5.	Mine Engineering (5) Mine Engineering.	5.	Drawing (7) Photography.	2.
Metallurgy (8) Ore Dressing.	2.				

THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of such study must lie within the field of Metallurgy or of Mine Engineering. The subject must be announced to the President of the University (dependent upon the written approval of the head of the department) not later than the beginning of the second term of the Senior Year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

COURSE IN ARCHITECTURE

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1) Freehand.	3.	Drawing (1) Freehand.	3.	Drawing (1) Freehand.	3.
Gen. Chemistry (7) Inorganic.	5.	Gen. Chemistry (7) Inorganic.	5.	Drawing (2) Lettering.	3.
Mathematics (14) Plane Trigonometry.	5.	Mathematics (15, 16) Trigonometry, Algebra.	2, 3	Mathematics (17) Plane Analytics.	5.
Rhetoric (1) Paragraph Writing.	2.	Rhetoric (1) Theme Writing.	2.	Rhetoric (1) Prose Analysis.	2.
Shop Work (1) Carpentry and Pattern Making.	3.	Shop Work (1) Carpentry and Pattern Making.	3.	Shop Work (1) Carpentry and Pattern Making.	3.
Cadet Service.		Cadet Service.		Cadet Service.	

SECOND YEAR

Drawing (7) Photography.	2.	Architecture (1) Orders.	5.	Architecture (2) Styles.	5.
Drawing (3) Projections.	3.	Drawing (3) Descriptive Geometry.	5.	Drawing (3) Shades, Shadows and Per- spective.	5.
Drawing (14) Pen.	2.	Drawing (12) Clay Modelling.	2.	Drawing (12) Clay Modelling.	2.
Greek (1) Ancient Art.	2.	Greek (1) Ancient Art.	2.	Greek (1) Ancient Art.	2.
Physics (2) Mechanics and Heat.	3.	Physics (2) Electricity and Magnetism.	3.	Physics (2) Light and Sound.	3.
Mechanical Eng. (28) Materials of Construction.	5.				
Cadet Service.		Cadet Service.		Cadet Service.	

THIRD YEAR

Architecture (3) Designing.	5.	Architecture (3) Designing.	5.	Architecture (3) Designing.	5.
Architecture (4) Specifications.	2.	Architecture (5) Decorations.	3.	Architecture (6) Estimates.	4.
Civil Engineering (15) Masonry.	5.	Architecture (7) Heating.	5.	Architecture (8) Designing.	5.
Civil Engineering (20) Roof Trusses.	5.	Civil Engineering (6) Stereotomy.	4.	Civil Engineering (21) Surveying.	3.

THE SHORT COURSES¹

ADMISSION TO THE SHORT COURSE IN CLAY-WORKING AND CERAMICS, IN INDUSTRIAL ARTS, AND IN MINING

Applicants must be not less than sixteen years of age, and unless they are over twenty-one years of age must pass an examination in *Arithmetic*, *Geography*, *Grammar* and *Orthography*, or bring High School or other certificates for these branches.

SHORT COURSE IN CLAY-WORKING AND CERAMICS

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Gen. Chemistry (7) Inorganic.	5.	Gen. Chemistry (7) Inorganic.	5.	Gen. Chemistry (12) Analytical.	5.
Physics (1) Elementary.	5.	Physics (1) Elementary.	5.	Geology (1) Phys. Geography.	5.
Mathematics (1) Algebra.	5.	Mathematics (3) Geometry.	5.	Shopwork (2) Forging.	3.
				Shopwork (4) Chipping and Filing.	2.
Cadet Service.		Cadet Service.		Cadet Service.	

SECOND YEAR

Ceramics (1) Analysis of Limestones.	5.	Ceramics (2) Analysis of Clays.	5.	Ceramics (3) Analysis of Clays.	5.
Ceramics (4) Gen. Principles.	5.	Ceramics (5) Brick.	5.	Ceramics (6) Pottery.	5.
Geology (2) General.	5.	Geology (3) Economic.	5.	Drawing (11) Mechanical.	5.
Cadet Service.		Cadet Service.		Cadet Service.	

¹ See statement on page 63.

SHORT COURSE IN INDUSTRIAL ARTS

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1) Freehand.	1.	Drawing (1) Freehand.	1.	Drawing (1) Freehand.	1.
Drawing (8) Geometric.	2.	Drawing (8) Projections.	2.	Drawing (2) Lettering.	2.
Mathematics (2) Algebra.	5.	Mathematics (2) Algebra.	5.	Mathematics (2) Algebra.	5.
Mathematics (3) Plane Geometry.	5.	Mathematics (13) Space Geometry.	5.	Mathematics (14) Trigonometry.	5.
Shopwork (1) Carpentry and Pattern Making.	3.	Shopwork (1) Carpentry and Pattern Making.	3.	Shopwork (2) Forging.	3.
Cadet Service.		Cadet Service.		Cadet Service.	

SECOND YEAR

Drawing (3) Mechanical.	3.	Drawing (3) Mechanical.	3.	Drawing (3) Mechanical.	3.
Industrial Arts (1) Tools and Machines.	3.	Industrial Arts (1) Tools and Machines.	3.	Industrial Arts (1) Tools and Machines.	3.
Physics (1) Elementary.	5.	Physics (1) Elementary.	5.	Geology (1) Phys. Geography.	5.
Shopwork (3), (4) Foundry and Chipping and Filing.	5.	Shopwork (5) Machine Work.	5.	Shopwork (6) Machine Work.	5.
Cadet Service.		Cadet Service.		Cadet Service.	

SHORT COURSE IN MINING

FIRST YEAR

Mathematics (2) Algebra.	5.	Mathematics (2) Algebra.	5.	Mathematics (2) Algebra.	
Mathematics (3) Geometry.	5.	Mathematics (13) Geometry.	5.	Mathematics (14) Trigonometry.	
Physics (1) Elementary.	5.	Physics (1) Elementary.	5.	Geology (1) Phys. Geography.	
Cadet Service.		Cadet Service.		Cadet Service.	

SECOND YEAR

Drawing (1) Freehand.	2.	Drawing (4) Draughting.	3.	Drawing (2) Lettering.	2.
Drawing (3) Projections.	3.	Geology (4) Elementary.	5.	Metallurgy (9) Mineral Chemistry.	5.
General Chemistry (7) Inorganic.	5.	General Chemistry (13) Laboratory.	3.	Mine Engineering (3) Mine Operating.	5.
Mine Engineering (1) Mine Surveying.	5.	Mine Engineering (2) Ventilation and Haulage.	5.	Shopwork (2) Forging.	3.
Cadet Service.		Cadet Service.		Cadet Service.	

THE COLLEGE OF LAW

FOR ADMISSION

The following are the requirements:

1. *To the Junior Class*—Applicants for admission to the Junior Class must present satisfactory evidence (by teacher's certificate, High School, Academy or College diploma, or by examination) of having a good common school education, including *United States History*, *Civil Government*, and a thorough training in *English Composition*.

2. *To the Middle Class*—In addition to the requirements for admission to the Junior Class, applicants for admission to the Middle Class must present satisfactory evidence of having completed the work of the Junior year, or its equivalent.

3. *To the Senior Class*—In addition to the requirements for admission to the Junior Class, applicants for admission to the Senior Class must present satisfactory evidence of having completed the work of the Junior and Middle years, or its equivalent.

4. *For a Degree*—Students seeking a degree must, before the close of the Senior year, present in addition to the requirements above mentioned, satisfactory evidence of having completed a course of study, the minimum requirement of which will be substantially as follows: *Arithmetic, Civil Government, Geography, Grammar, History of the United States*; one term of 12 weeks, 5 hours per week, in each of the following: *Physical Geography, Physiology, Rhetoric*, the completion of *Gage's Elements of Physics, Geometry, and Wentworth's Elements of Algebra*; and, in addition, the equivalent of 75 hours per week for one term of 12 weeks, (a total of 900 hours), chosen from any five or more of the following subjects, one at least being a Science and two at least being in History or Political Science (unless the applicant is especially permitted to offer approved substitutes): *Botany, Chemistry, English Constitutional History, English History, English Literature, French, Geology, General History, German, Greek, Latin, Logic, Physics, Political Economy, Psychology, Surveying, Trigonometry, United States Constitutional History*; provided, that not less than 65 hours for twelve weeks (a total of 780 hours) of this work shall have been done in a College or University of good standing. Blanks for applications for degrees will be furnished on request.

COURSE IN LAW

FIRST YEAR¹

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hour
Contracts	3.	Contracts	3.	Agency	2.
				Common Law Pleading.	2.
		Criminal Law	2.	Criminal Law	2.
Elementary Law	10.	Elementary Law	5.	Elementary Law	5.
		Moot Court	1.	Moot Court	1.
Sales	2.	Sales	2.	Torts	2.
Torts	2.	Torts	2.		

¹ The subjects are arranged alphabetically—not in order of work.

SECOND YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Bailments, etc.	2.	Bailments, etc.	2.	Bailments, etc.	2.
Code Pleading	2.	Code Pleading	2.	Code Pleading	2.
Commercial Law	2.	Commercial Law	3.		
Corporations Private.	2.	Corporations Private.	2.	Corporations Private.	2.
Evidence	2.	Evidence	2.	Evidence	2.
Moot Court	1.	Moot Court	1.	Moot Court	1.
				Partnership	3.
Real Property	2.	Real Property	2.	Real Property	2.
Study of Cases	2.	Wills	2.		

THIRD YEAR

Circuit and Supreme Court Practice, etc.	2.	Const. of Commercial and Trade Contracts	2.		
Constitutional Law Federal and State	2.	Constitutional Law Federal and State	2.		
Equity Jurisprudence	2.	Equity Jurisprudence	2.	Equity Jurisprudence	2.
Federal Practice	2.				
Insurance, etc.	2.	Insurance, etc.	2.		
		International Law	2.	International Law	2.
Municipal Corporations	2.	Municipal Corporations	2.	Negligence of Municipal Corporations	2.
Probate Practice Civil Code, etc.	2.	Probate Practice Civil Code, etc.	2.	Probate Practice Civil Code, etc.	2.

PURPOSE AND METHODS

It is the purpose of this College to furnish such legal training as will secure the most favorable judgment of the profession, and such as will fit students for practice in any part of the country.

The aim is to teach an accurate knowledge of the principles of the law, and to illustrate the application of these principles to the practical affairs of life—to teach students both to know and to apply the law. The instruction offered includes an Undergraduate Course containing three years of nine months each, and a Graduate Course of one year. The former requires about fifteen hours of lecture and recitation work per week each year, and embraces all the elementary and practical studies necessary for admission to the bar of any State administering the Common Law. The Graduate Course is designed for those seeking special instruction in a particular line, or desiring to take a course of a more practical character.

The methods of instruction combine the advantages of all approved systems and appliances—the lecture system, the text-book and recitation system, and the case system. Charts, outlines, analyses, essays, note-taking, oral and written lectures, reviews and examinations are used; and exercises in drafting contracts, abstracts, conveyances, wills, protests, mercantile contracts, pleadings, indictments, and other legal papers are given. Briefs, arguments in moot courts, etc., are required. Attention is given to the study and accurate analysis of leading cases.

GENERAL REGULATIONS

IRREGULAR STUDENTS

In special cases, students who have had part of the studies in the Junior year and part of those of the Middle year, or part of those of the Middle year and part of those of the Senior year, may be examined on whatever subjects they may select, and may take part of the studies of both years. If the Faculty is satisfied that the applicants can do so to advantage. If candidates for a degree, such applicants must meet all the other requirements and have all the other qualifications of those seeking a degree.

SPECIAL STUDENTS

Persons wishing a knowledge of legal principles *for business purposes only*, but not intending to apply for a degree or to take a full course, may be admitted at any time as special students, and may avail themselves of such advantages of the College as they may deem expedient. Their convenience will not be taken into consideration in arranging classes, and they must make satisfactory arrangements as to fees, hours of recitation, etc., with the Dean.

ENTRANCE EXAMINATIONS

Entrance examinations, except for those seeking a degree, will not be technical; the object being to ascertain the results of previous training, and practical capacity to appreciate the technical study of the law. All entrance examinations will be conducted in writing, and will be held on the Monday and Tuesday preceding the opening of each term.

PRIOR READING OF LAW

Although prior reading of law is not required for admission, it is nevertheless very desirable; and it is to be hoped that in the near future this requirement for admission can be made. Before entering the College of Law, careful study of either Walker's American Law, Blackstone's Commentaries, Pomeroy's Municipal Law, Smith's Elements of Law, Powell's Analysis of American Law, Robinson's Elementary Law, or Baird and Babcock's Guide to the Law, will prove of great advantage.

It is believed, also, that all students will be greatly benefited by reading Bishop's First Book of the Law, Hoffman's Legal Studies, Sharswood's Law Lectures, Warren's Law Studies, Washburn's Lectures on the Study and Practice of the Law, or Reed's American Law Studies.

APPLICATIONS FOR DEGREES

At the time of registration all applicants who seek degrees should present their diplomas and certificates of work done. These certificates should state in detail the studies pursued, the text books used, the amount of work done in each study, the amount of time devoted to it, the date of the examination and the rank or standing of the candidate in it. A copy of the course of study should accompany the certificate in all cases, and must accompany it where equivalents are offered. These statements should also be accompanied by information as to age, occupation, experience, and work done since leaving school. Blanks for applications will be furnished on request.

EXAMINATIONS

Examinations are held from time to time to test the student's knowledge of the work he has gone over. These are usually written, but sometimes oral.

THESIS

Each candidate for a degree is required to prepare and deposit with the Faculty, at least six weeks before the end of the year of graduation, a thesis of not less than fifteen hundred nor more than five thousand words, exclusive of citations of authorities, upon some subject selected by himself with the approval of the professor giving instruction in that division of law from which the subject is chosen.

DEGREES

The degree of Bachelor of Laws (LL. B.) will be conferred on all who, being twenty years of age and having met the requirements necessary for entrance for a degree, pass satisfactorily the examinations at the close of the Senior year, after having done at least one year's work in the College of Law at the University, and having presented a thesis acceptable to the Faculty.

The degree of Master of Laws will be conferred upon any one who has received the degree of Bachelor of Laws at this University, upon completing the studies of the Graduate year, and satisfactorily passing an examination therein, and presenting a satisfactory thesis; the subject of which has been chosen from the field included in the Graduate year.

CERTIFICATE OF WORK DONE

Those who have completed the studies of the College, but have not complied with the requirements for a degree, will be given an official certificate, showing the work done, and signed by the President of the Board of Trustees, the President of the University, and the Dean and the Secretary of the College of Law.

ADMISSION TO THE BAR

The regular examination for admission to the bar, by the Supreme Court, is held on the first Tuesday in June of each year. Seniors, if eligible, are recommended to take this examination.

COURSE OF INSTRUCTION

The Course of Study is three years of nine months, or thirty-six weeks, each; covering about fifteen hundred hours of work. It is so arranged that each class will have an average of three recitations a day, of an hour in length, thereby doing the same amount of work that is done in a regular university course.

The first, or Junior year, includes a general view of the leading principles of the whole field of the law as found in Robinson's Elementary Law, Walker's American Law, and Blackstone's Commentaries; to these are given over two hundred hours. The subjects of Contracts, Agency, Sales, Torts, and Criminal Law are studied somewhat in detail during this year, about seventy hours being given to each of these sub-

jects, except Agency, in addition to what is contained in the elementary works before mentioned.

In the Middle year a fairly comprehensive study is made of many leading subjects, such as Private Corporation Law; Pleading; Evidence; Commercial Law, such as bills and notes, partnership, insurance, etc.; Real Property, including mortgages and other liens; and Bailments, under which the subject of Carriers will be extensively treated; Wills, Insurance, etc.

In the third, or Senior year, one-half of the time is devoted to Practice, including Federal Practice, Supreme Court Practice, Common Pleas Practice, Probate Practice, Appeals, Error, Extraordinary Legal Remedies, Special Proceedings, Office Practice, Conveyancing, etc. The other half is devoted to Equity, Constitutional Law, International Law, Conflict of Laws, Measure of Damages, General Jurisprudence, Municipal Corporations, etc.

MOOT COURT

Juniors and Middle Year Students will have Moot Court, under the supervision of the Dean, throughout the year; Juniors in Justices' practice, and Seniors in Common Pleas practice, not less than one hour each week. Each of the latter will have the opportunity to act as Associate Judge and Clerk, as well as attorney in cases. The object of the Moot Court is to give practical insight into the conduct of trials, examination of witnesses, production of evidence, etc.

GRADUATE INSTRUCTION

(A) GENERAL SUBJECTS

Provision is made for Graduate instruction in the following subjects: Contracts, Mercantile Law, Corporations, Railroad Law, Insurance Law, advanced Study in Evidence, in the Law of Real Property, Jurisdiction and Procedure in Equity, Domestic Relations, Admiralty, Roman Law, American Constitutional History, American Constitutional Law, English Constitutional History, English Constitutional Law, Comparative Jurisprudence, General Jurisprudence, Political and Social Science.

The Graduate work in the subjects above named will be conducted in the following manner: At the opening of the University year each student will be required to select three subjects to which the work of the year will be devoted. One of these will be designated the major subject. To this he will be expected to give his best energies, and to make his investigations therein thorough, comprehensive and exhaustive. To the other subjects, known as minors, he will give such attention as his time will permit. The work required in the minor lines will be of a more general character, and, although thorough so far as prosecuted, will be less extended than that of the major subject. By special permission from the Faculty, a student may devote all his time to one subject. Each student will be under the special guidance of the professors in whose departments his subjects lie. He will receive from each full instruction as to the questions to be investigated and as to the nature and direction of his work, and also such individual assistance as may be needed from time to time during the progress of his studies. Periodical reports and examinations upon work assigned will be required, at which time the professor in charge will go over carefully with the student the ground covered since the last report, and make such criticisms and suggestions as may be necessary.

(B) PRACTICE

A Graduate course in Practice has been provided in the Common Pleas, Appellate, Probate, Federal and Office Practice, and in the interpretation and construction of Contracts and Statutes.

Each student will be required to prepare a thesis upon some question connected with his major subject. This production must be scholarly and exhaustive, and the author must be prepared to defend the positions taken therein.

Graduate students are expected to attend all lectures not in the regular courses. All undergraduate courses are open to graduate students without extra charge.

Graduate instruction covers one year, and actual residence is required.

Those who take the Graduate work, but who are not entitled to a degree, will be given a certificate.

ADVANTAGES

LOCATION

Attention is called to Columbus as a place in which to study law. Here the Legislature meets; here are the Supreme Court; the Circuit Court; four branches of the Common Pleas Court, in almost daily session throughout the school year; the Probate Court; the County Commissioners; the City Court, and several Magistrates' Courts; also the U. S. Circuit and District Courts. All are easy of access from the College. "There is no place where law is learned so quickly and thoroughly as among lawyers. No teaching is so effective as the object lessons of the trial of cases in court."

LIBRARIES

The following libraries are accessible to the student :

The Law Library of the College contains the Noble Law Library, the Emerson McMillin Law Library, the Critchfield Law Library, and three sets of the Ohio State Reports; about 2,500 well-selected volumes. It is shelved with the other libraries of the University, in Orton Hall.

The University Library contains 16,500 volumes of very carefully selected books upon all subjects. This is quite complete in the more recent standard works upon history and political science, philosophy, etc. A good collection of the leading scientific, technical and literary magazines and journals is to be found here.

The State Law Library, of about 15,000 volumes—the largest and most complete law library in the State. It contains complete sets of the English, Scotch, Irish, Canadian, United States, and State Reports, Statutes and Digests, as well as all of the important text-books and leading periodicals published. This library is located in the State House, and because of the small space available, must be used with great care and discretion in order that all may be served. It is designed wholly for reference, and students are warned that they must not use the library rooms as a place for preparing their lessons, and that the text-books found here are to be used for reference only. No student is expected, nor will he be permitted, to use these books instead of providing himself with those required in the course.

The State Library, in the State House—a library of general literature, history, science, biography, political and social science, philosophy, etc., comprising some 65,000 volumes. The leading magazines, journals, etc., are also to be found here.

The University Libraries are open from 7:30 A. M. to 9:30 P. M. during the five days in which the University is in session, and on Saturdays from 8 A. M. to 4 P. M. The State Law Library is open six days in the week, from about 8:30 A. M. to 5:30 P. M., with the exception of about an hour or an hour and a half at noon. The State Library is open six days in the week from 9 A. M. to 12 M., and from 2 P. M. to 5 P. M.; and when the Legislature is in session, from 7 P. M. to 9 P. M.

The City Library also may be used by students under reasonable restrictions.

THE UNIVERSITY COURSES

Attention is called to the great advantage of attending a law school in close and vital connection with a University affording the means of a liberal, practical and technical education. Students who are disposed to work faithfully may, at the same time that they are acquiring a technical knowledge of the law, supplement their general education by joining University classes, in departments which they may elect, subject to the requirements for admission to such departments, without extra charge except for laboratory work. Not alone from the courses in History and Political Science, or from those in Mental and Moral Philosophy, should this work be selected, but also from the courses in Civil, Mine, Mechanical and Electrical Engineering, from the courses in Anatomy and Physiology, Economic Geology, etc. To the average practitioner, there will come ten questions involving the principles of surveying or engineering to one of constitutional law, or English history. Not a day passes in the litigation of the courts but that numerous questions of anatomy, physiology, surveying, or engineering arise and are to be decided. Particular attention, therefore, is called to the technical courses afforded by the University, which will be open to those in the College of Law who are able to take them without interfering with the required legal work. The following departments offer courses which will prove beneficial to those who have not had such training as would enable them to take more technical work: Botany, Physiology, Physics, Civil Engineering, Mine Engineering, Chemistry (Toxicology), Geology, Philosophy, History, English.

EXPENSES

FEES

Each student is required to pay an incidental fee of fifteen dollars a year, and in this College a tuition fee of forty-five dollars. For other expenses see page 43.

THE COLLEGE OF PHARMACY

FOR ADMISSION TO THE FOUR-YEAR COURSE¹

The following are the requirements:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar, and United States History.*

¹ An applicant for admission who may be somewhat in arrears in any given subject, will find opportunity to make up this work in the Columbus High Schools, which are fully accredited by the University.

2. *English*—(a) Composition and Rhetoric. Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of two essays of about two hundred words each. The first essay will be upon a subject drawn from the candidate's observation or experience; as "A description of my native town," "The most remarkable person I ever met," "My reasons for seeking a University education." The second essay will be upon a subject drawn from a list of classics which will be furnished on application.

The proper preparation for this requirement is sustained and regular practice in writing. The pupil should be afforded weekly practice in preparing written exercises—paragraphs, outlines, themes, reproductions and abstracts; and his written work should be corrected by the teacher and revised and rewritten by himself.

The pupil should be familiarized with those principles of Rhetoric which are most likely to help him in his composition work; such as the principles of sentential structure, outlining, paragraphing, and choice of words. The study of specimens of bad English is not recommended; the time usually devoted to this may be better spent in memorizing and reciting notable passages of prose and poetry selected from works read entire by the class. Exercises in speaking from a topical outline previously prepared by the class are recommended for drill in expression and choice of words.

The subjects for the weekly written exercises should be so distributed that the pupil will have practice in the four types—description, narration, exposition and argumentation. Some of these subjects should be taken from the classics prescribed for 1897 and other classics, preferably by the same authors, prescribed for parallel or subsidiary outside reading by the class; but fully one-half of the subjects upon which the pupil writes during his preparatory course should be drawn from his own observation and experience, especially subjects in description and narration.

(b) *English Classics*—Questions will be set for the purpose of testing the applicant's knowledge of the subject-matter, form and substance of the following books; with the plot, purpose, literary style and peculiarities, incidents, and characters of which the applicant should make himself thoroughly familiar.

1897. Shakespeare's *As You Like It*, or *The Merchant of Venice*; Scott's *Marmion*; Longfellow's *Evangeline*; George Eliot's *Silas Marner*; Irving's *Tales of a Traveler*.

1898. Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I and XXII; Goldsmith's *The Vicar of Wakefield*; Southey's *Life of Nelson*; Lowell's *The Vision of Sir Launfal*; Hawthorne's *The House of the Seven Gables*.

These or equivalent texts will require minute and critical study in class during at least one school year. The test here is the pupil's ability to analyze plot and character, to explain words, phrases and figures, to reproduce thought, to point out characteristics of style. Systematic classroom study of the texts themselves is the only adequate preparation. Literary history, literary biography and the comments of professional critics will not serve the purpose. The work in class should be intensive and disciplinary; there the distinction between the reading of literature and the study of classics should be sharply defined. Outside reading of other works, preferably by the same authors, is recommended, and should be prescribed as the basis of part of the composition work; but this general reading and composition work should not be regarded as an adequate substitute for the minute study of the few classics prescribed above, and will not be accepted as preparation for this part of the English requirement.

3. *Algebra*—Wentworth's or Well's Elements, complete.

4. *Botany*—Kellerman's Elements.

5. *Civil Government*—Fiske or Thorpe preferred.

Or *History*—Myers's General History.

6. *Geometry, Plane and Solid*—Venable, Wentworth, or Wells.

7. *Latin*—Pronunciation (the Roman method); Grammar (an exact knowledge of the inflections is essential); Caesar, the first three books of the *De Bello Gallico*.

Or *German*—Joynes-Meissner's German Grammar, complete; Joynes's German Reader, complete; Hauff's *Liechtenstein*, Lessing's *Minna von Barnhelm*, Huss's *Sessenheim* and Buchheim's *Goethe's Dichtung und Wahrheit*.

For the present, the *German* required for admission may be begun at the University, but without University credits.

8. *Physics*—Carhart and Chute, Gage, Avery, or Appleton.

COURSE IN PHARMACY

NOTE—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Gen'l Chemistry (7) Inorganic.	5.	Gen'l Chemistry (7) Inorganic.	5.	Gen'l Chemistry (12) Qualitative Analysis.	5.
Latin (1) Pharmaceutical.	5.	Latin (1) Pharmaceutical.	5.	Latin (1) Pharmaceutical.	5.
German (1) or Elementary.	4.	German (1) or Elementary.	4.	German (1) or Elementary.	4.
Mathematics (3) Plane Geometry.	5.	Mathematics (13) Space Geometry.	5.	Mathematics (14) Trigonometry.	5.
Rhetoric (1) Paragraph Writing.	2.	Rhetoric (1) Theme Writing.	2.	Rhetoric (1) Prose Analysis.	2.
Cadet Service.		Cadet Service.		Cadet Service.	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

SECOND YEAR

Botany (6) Physiological.	5.	Botany (4) Medical.	2.		
Gen'l Chemistry (4) Laboratory.	5.	Gen'l Chemistry (4) Laboratory.	5.	Gen'l Chemistry (4) Laboratory.	5.
German (2) Science Reading.	2.	German (2) Science Reading.	2.	German (2) Science Reading.	2.
Pharmacy (6) Gen'l Processes.	3.	Pharmacy (7) U. S. Pharmacopela.	5.	Pharmacy (8) Dispensaries, etc.	5.
Physics (2) Mechanics and Heat.	3.	Physics (2) Electricity and Magnetism.	3.	Physics (2) Sound and Light.	3.
				Metallurgy (2) Mineralogy.	3.
Cadet Service.		Cadet Service.		Cadet Service.	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

THIRD YEAR

Pharmacy (9) Gen'l Processes.	5.	Pharmacy (10) Prescriptions.	5.	Pharmacy (11) Dispensaries, etc.	5.
Pharmacy (12) Materia Medica.	3.	Pharmacy (13) Materia Medica.	2.	Pharmacy (14) Mat. Medica & Thera.	3.
Physiology (1) Human Anatomy.	5.	Physiology (1) Physiology.	5.	Physiology (5) Microscopy.	3.
		Physiology (8) Bacteriology.	2.		

Chemistry elective for the year—five hours.

FOURTH YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
General Chemistry (8) Organic.	5.	General Chemistry (9) Laboratory.	5.	General Chemistry (9) Laboratory.	5.
Geology (2) General.	5.	Geology (2) General.	5.	General Chemistry (11) Toxicology.	4.
Pharmacy (15) Assaying.	5.	Pharmacy (17) General.	5.	Pharmacy (17) General.	5.
Thesis.		Thesis.		Thesis.	

Elective three hours through the year.

SHORT COURSE IN PHARMACY¹

FOR ADMISSION

Candidates for admission who are less than twenty-one years of age must be prepared in the common English branches. Teacher's certificates (in force), or credentials from schools, will be accepted in lieu of an examination.

NOTE—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR

General Chemistry (7) Inorganic.	5.	General Chemistry (7) Inorganic.	5.	Botany (1) Elementary.	5.
Latin (1) Pharmaceutical.	5.	Latin (1) Pharmaceutical.	5.	General Chemistry (12) Qualitative Analysis.	5.
Physics (1) Elementary.	5.	Physics (1) Elementary.	5.	Latin (1) Pharmaceutical.	5.
Pharmacy (5) General Processes.	3.	Pharmacy (7) U. S. Pharmacopeia.	5.	Pharmacy (8) Dispensaries, etc.	5.
Cadet Service.		Cadet Service.		Cadet Service.	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

SECOND YEAR

Botany (6) Physiological.	5.	Botany (4) Medical.	2.	Gen. Chemistry (11) Toxicology.	4.
Gen. Chemistry (4) Laboratory.	5.	Gen. Chemistry (4) Laboratory.	5.	Gen. Chemistry (4) Laboratory.	5.
Pharmacy (9) Phar. Chemistry.	5.	Pharmacy (10) Prescription Practice.	5.	Pharmacy (11) Dispensing Practice.	5.
Physiology (1) Human Anatomy.	5.	Physiology (1) Physiology.	5.	Physiology (5) Microscopy.	3.
		Physiology (8) Bacteriology.	2.		
Cadet Service.		Cadet Service.		Cadet Service.	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

¹ See statement on page 63.

COLLEGE OF VETERINARY MEDICINE

FOR ADMISSION¹

The following are the requirements:

1. For applicants for certificate of Veterinary Surgeon: *Arithmetic, Geography, and Grammar.*

2. For applicants who intend to become candidates for the degree of Doctor of Veterinary Medicine:

1. *Arithmetic, Grammar, and Descriptive and Physical Geography.*

2. *English Composition and Rhetoric*—Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of two essays of about two hundred words each. The first essay will be upon a subject drawn from the candidate's observation or experience; as "A description of my native town," "The most remarkable person I ever met," "My reasons for seeking a University education." The second essay will be upon a subject drawn from a list of classics which will be furnished on application.

The proper preparation for this requirement is sustained and regular practice in writing. The pupil should be afforded weekly practice in preparing written exercises—paragraphs, outlines, themes, reproductions and abstracts; and his written work should be corrected by the teacher and revised and rewritten by himself.

The pupil should be familiarized with those principles of Rhetoric which are most likely to help him in his composition work; such as the principles of sentential structure, outlining, paragraphing, and choice of words. The study of specimens of bad English is not recommended; the time usually devoted to this may be better spent in memorizing and reciting notable passages of prose and poetry selected from works read entire by the class. Exercises in speaking from a topical outline previously prepared by the class are recommended for drill in expression and choice of words.

The subjects for the weekly written exercises should be so distributed that the pupil will have practice in the four types—description, narration, exposition and argumentation. Some of these subjects should be taken from the classics prescribed for 1897 and other classics, preferably by the same authors, prescribed for parallel or subsidiary outside reading by the class; but fully one-half of the subjects upon which the pupil writes during his preparatory course should be drawn from his own observation and experience, especially subjects in description and narration.

3. *History*—History of the United States, Johnston preferred.

4. *Latin or German*—One year.

5. *Physics*—Gage, Carhart and Chute, Avery, or Appleton.

¹ An applicant for admission who may be somewhat in arrears in any given subject, will find opportunity to make up this work in the Columbus High Schools, which are fully accredited by the University.

COURSE IN VETERINARY MEDICINE

NOTE—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Ag. Chemistry (1) Principles.	5.	Ag. Chemistry (8) Organic.	5.	Ag. Chemistry (9) Applications.	5.
Physiology (1) Human Anatomy.	5.	Physiology (1) Physiology.	5.	Botany (1) Systematic.	5.
Physiology (4) Histology.	5.	Physiology (4) Histology.	5.	Physiology (4) Phys. Chemistry.	5.
Vet. Medicine (11) Osteology.	5.	Vet. Medicine (12) Myology, etc.	5.	Vet. Medicine (18) Dis-sections, etc.	5.
Cadet Service.		Cadet Service.		Cadet Service.	

SECOND YEAR

Agriculture (8) Breeds of Live Stock.	4.	Agriculture (9) Stock Breeding.	4.	Agriculture (10) Stock Feeding & Hygiene.	4.
Pharmacy (12) Materia Medica.	5.	Pharmacy (13) Materia Medica.	5.	Pharmacy (18) Laboratory.	5.
Vet. Medicine (14) Gen. Pathology.	5.	Vet. Medicine (15) Gen. Pathology.	5.	Vet. Medicine (16) Special Pathology.	5.
Vet. Medicine (15) Surgical Diseases.	5.	Vet. Medicine (18) Surgical Diseases.	5.	Vet. Medicine (18) Surgical Diseases.	5.
Vet. Medicine (19) Clinic.	6.	Vet. Medicine (19) Clinic.	6.	Vet. Medicine (19) Clinic.	6.
Cadet Service.		Cadet Service.		Cadet Service.	

THIRD YEAR.

Vet. Medicine (20) Special Pathology.	3.	Vet. Medicine (21) Special Pathology.	3.	Vet. Medicine (22) Therapeutics.	5.
Vet. Medicine (24) Gen. Surgery.	5.	Vet. Medicine (25) Practice in Operating.	5.	Vet. Medicine (23) Obstetrics.	5.
Vet. Medicine (19) Clinic.	6.	Vet. Medicine (19) Clinic.	6.	Vet. Medicine (19) Clinic.	6.
		Physiology (6) Bacteriology.	3.		
Vet. Medicine (27) Meat Inspection.	5.	Thesis.	2.	Vet. Medicine (26) Horse Shoeing.	5.
				Thesis	2.

THE SUMMER SCHOOL

By action of the Board of Trustees and of the Faculty a Summer School has been established in the University and placed under the general supervision of the President and Faculty. The immediate supervision of the work of the School is vested in a committee of the Faculty, consisting of the President of the University, a Dean of the Summer School, and the heads of departments which offer courses in the Summer School. The session of the Summer School of 1896 began July 6 and closed August 14, covering a period of six weeks.

Copies of the Summer School Announcement for 1897, containing full information, may be had by addressing the President after April 1.

GENERAL STATEMENT

The courses of instruction outlined below were given in the Summer School of 1896. Each course is given if four students apply for it, unless a larger minimum number of students in the class is specified in the outline of the course. Other courses may be offered if there should be a call for them. Those who desire to engage in special advanced work under the guidance of the University, should communicate with the heads of departments concerned.

Each student selects such of these courses as he may wish to take; but the amount of work required in each course is so great that students are advised not to undertake work in more than two departments, or at most three; nor in excess of fifteen exercises each week.

Fees are payable in advance to the Treasurer of the Summer School. Students are admitted to classes only upon presentation of cards signed by the Dean and countersigned by the Treasurer. The fees are, for each full single course of five hours each week through six weeks (excepting Rhetoric, course A) seven and a half dollars; for two such courses, twelve and a half dollars; for three such courses, sixteen dollars; for each course of more or less than five hours the fee is proportional to the number of hours.

Laboratory fees are extra; consult the outline of each course involving laboratory work. The fee for special advanced work is determined by the instructor. The minimum total of fees for any one person is seven and a half dollars. No reduction will be made on account of loss of time by students.

Ten hour classes meet once on Monday and Saturday and twice on the other days of the week; six hour classes, on every day of the week; five hour classes, on every day except either Saturday or Monday; four hour classes, on Tuesday, Wednesday, Thursday and Friday; three hour and two hour classes, on alternate days.

During library hours students of the Summer School can consult the books in the library and use the reading room for reading and study under the same rules as those which apply to regular University students. There is no library fee.

Each head of department determines what, if any, credits in regular University courses in his department shall be allowed for work done in the Summer School.

Credit can be allowed only when the work is the same in kind and amount as in the University. For information as to this, and for fuller information respecting any of these courses, apply to the instructors.

Classes meet on standard time.

Columbus is centrally situated, more easily accessible than any other city in Ohio. The grounds of the University are large and delightful, and in summer especially attractive and restful. The walks, drives, trees, lawns, gardens, and farm secure country air, scenery and quiet, with more than country conveniences. The rooms and equipment are ample. In addition to the library, rooms are open in which students can study in the hours between recitations.

The cost of living in Columbus is moderate. A furnished room with board can be secured, in homes conveniently near the University, for not to exceed four dollars a week.

SCHOOL OF PEDAGOGY

Arrangements are being made to secure the services of some noted specialists in Pedagogy, for special work in that line in the summer of 1897. Full announcements will be made later.

COURSES OF INSTRUCTION¹

In the following list of courses the number of "hours" indicate the number of class exercises each week, whether lectures, recitations or laboratory work.

BOTANY

- A. **Elementary Botany**—Daily, two hours, but to count as a single course.
Time for collecting and preparing a herbarium not included in the two hours 5 hours
- B. **Advanced Work in Botany**—Kind and amount of work and laboratory fee (if any) to be arranged with each student. Daily, to count a single course 5 hours

CHEMISTRY

- A. **Principles of Chemistry**—Lectures 5 hours
- B. **Qualitative Analysis**—Laboratory Fee \$4.00 10 hours
- C. **Quantitative Analysis**—Laboratory Fee \$4.00 10 hours

¹ The courses for 1897 have not yet been determined. These are given to illustrate the general scope of the School. They cover the work done in 1896.

DRAWING

- A. **Freehand Drawing**—Pencil, charcoal and crayon, and pen drawing.. 2 hours
- B. **Elementary Mechanical Drawing**—Orthographic, isometric and oblique projection drawing 3 hours
- C. **Photography**—Indoor, outdoor, copying, printing, and lantern slide photographic work 2 hours
- These subjects are taught by lectures and practice.

ENGLISH LITERATURE

- A. **Teachers' Preparatory Course**—The English Classics prescribed for admission to the University in 1897 and 1898, beginning with *Marmion*. Other work is selected after the organization of the class, but Shakspeare is excluded from this course. This course is designed not only to secure familiarity with the texts studied, and to cultivate the perception of literary quality, but also to teach the most useful methods of studying English Literature; therefore several methods of condensing the work are exhibited in practice 5 hours
- B. **Teachers' Course in Shakspeare**—Beginning with the *Merchant of Venice*. The plan and purpose of this course are the same as of Course A. Other plays are selected after the organization of the class 5 hours

GEOLOGY

- Field Geology**—Conducted by Professor Edward Orton. Covering one week after the close of the term. The Geology of the State is studied in the field by excursions reaching every formation of the State, from the Cincinnati Rocks to the Pittsburgh Coal Seam. The expense of this week for travel and subsistence does not exceed \$25, and can perhaps be included in \$15. The fee for instruction is \$1.
- Elementary Geology**..... 5 hours
- Laboratory Course**—A distinct course in the Paleontology of Ohio, designed especially for Ohio teachers..... 5 hours
- Physical Geography** 5 hours

GERMAN

- A. **Elementary German**
- B. **Advanced German, with Conversation**
- C. **Science Reading**
- D. **German Literature**

GREEK

A class in Elementary Greek is formed for the benefit of beginners and those who are only partially prepared to meet the University requirements for admission.

For advanced work, making up conditions, etc., arrangements may be made with the instructor; but he cannot guarantee the formation of such class unless the work is demanded by at least four students.

LATIN

- A. **Cicero's Orations**—With special emphasis upon Grammatical Forms, Idiomatic Translation, Latin Prose Composition, Roman History.
- B. **Vergil's *Æneid***—With special attention to Poetic Forms, Prosody, Mythology, Roman Life and Customs.

The classes in Cicero and Vergil recite five times a week. If the demand warrants more than one class is formed in these authors, covering different parts of the work; so that by concentrating his attention upon one author the student may read six orations of Cicero, or five books of the *Æneid*. Students who elect to do such double work must arrange to devote their entire time to the one study in order to complete the work with a satisfactory degree of thoroughness.

LAW

Courses are offered to students preparing to apply for admission to the Bar, who desire a general review; to those who wish to become accustomed to the methods of the College of Law and gain some knowledge of Elementary Law preparatory to entering upon a full course of study; and to persons wishing a knowledge of legal principles for business purposes only.

The following courses are offered—any of which may be taken by each student:

- A. **Elementary Law, Commercial Law, Sales and Bailments.**
- B. **Constitutional Law, Corporations, Real Property.**
- C. **Pleading, Evidence, Criminal Law.**

The right is reserved to withdraw a course unless at least three applicants intend to take it.

Persons desiring to attend must notify the Dean of the College of Law by July 1, 1897; to whom they can also apply for further information.

The fee is \$30 payable upon enrollment.

MATHEMATICS

Five-hour courses are offered in any branch for which there is reasonable demand.

PHILOSOPHY

- A. **Elementary Psychology**..... 5 hours

PHYSICS

- A. **Special Instruction** in methods, use of apparatus, and general laboratory work: designed for teachers.
- B. **Elementary Physics**—For those preparing to enter the University.
- C. **Special Work** with University students.

RHETORIC

- A. **Daily Practice** in theme-writing under close criticism. Scott and Denney's Paragraph Writing is used as a guide. Extra fee, \$2.50, for reading and correcting manuscripts. This course is equivalent to the first term of University course (1) in Rhetoric..... 6 hours
- B. **Principles of Style**—A study of the style and characteristics of English prose writers, for the verification of rhetorical principles. Text-book, Genung's Rhetorical Analysis with Genung's Rhetoric for reference. This course is equivalent to the first term of University course (2) in Rhetoric. (No extra fee for manuscript work)..... 5 hours

ZOOLOGY AND ENTOMOLOGY

- A. **Vertebrate Morphology**—A laboratory course in vertebrate dissection. One vertebrate type is used as a basis; a part for dissection being assigned to each student. Attention is given especially to methods, both of gross dissection and microscopic work. Besides the work of injecting and preserving material, instruction with laboratory work is given in hardening, staining, sectioning, and mounting slides for microscopic work 3 hours
- B. **Invertebrate Morphology**—A laboratory course in invertebrate dissection. Types are dissected illustrating the Crustacea, Echinodermata, Crustacea, Mollusca, Vermes and Cœlenterata. The object is to give as comprehensive survey of the Invertebrata as the time permits. (Laboratory fee \$1.)..... 3 hours
- C. **Entomology**—A laboratory and field course in Entomology. The laboratory work consists of dissection of types illustrating the different orders of insects. The field work consists of collection and identification of specimens with instruction in preserving and mounting material..... 3 hours
- D. **Embryology**—A laboratory course in Embryology. The chick is used as a basis and serial sections are studied. Lectures are given on the earlier and more complex later stages. Instruction is given in fixing, staining, cutting, and mounting embryos for microscopic work. Each student is expected to put up one surface and one serial preparation. (Laboratory fee \$1.)..... 3 hours or 5 hours

The Departments

THE DEPARTMENTS

The Departments

AGRICULTURE

Professor Hunt, Assistant Professors Gibbs and Noyes, Mr. Burkett.

- 8.¹ **Breeds of Live Stock.** Lectures and recitations three times a week upon the history, characteristics, adaptation, care and management of the different breeds of domestic animals. Practicum once a week in scoring and judging live stock. First term.
9. **Principles of Breeding.** Lectures and recitations three times a week upon the laws of heredity and their practical applications. Practicum once a week in scoring and judging live stock, and in writing and tracing pedigrees. Second term.
10. **Stock Feeding and Hygiene.** Lectures and recitations three times a week upon the laws of nutrition, the character of food-stuffs, the relation of the food to the animals, and the kind and quantity of food to produce given effects. Practicum once a week in calculating digestibilities, nutritive ratios and feeding standards. Third term.
11. **Farm Equipment.** Lectures and recitations three times a week upon selecting, planning and equipping farms; planning and erecting farm buildings and fences; building roads; farm vehicles and machinery; power, water, and drainage. Practicum once a week in drawing plans of farms and farm buildings; leveling and laying drains; dynamometer tests of wagons and farm implements. First term.
12. **Soils.** Lectures and recitations three times a week upon the origin, formation, kinds, and physical properties of soils, and their improvement by cultivation, fertilization, drainage, and irrigation. Practicum once a week in laboratory, testing physical properties of several soils, determining the relation of soils to heat, moisture, air, and fertilizers, and making mechanical analyses. Second term.
13. **Farm Crops.** Lectures and recitations three times a week upon the history, production, marketing, cultivation, and harvesting of farm crops. Practicum once a week with growing and dried specimens of farm crops; including grasses, clovers, and other forage crops. Third term.
14. **Animal Mechanics and Exterior.** Lectures and recitations three times a week upon animal mechanics, proportions, and the relation of the latter to specific uses. Practicum once a week in measuring animals and testing the value of given measurements for given purposes. First term.
15. **Butter Making and Cheese Making.** Recitations twice a week. Laboratory practice two half days each week in running separators, churning and working butter, making cheese, and testing and pasteurizing milk. Second term.

¹ These numbers are "finding numbers", and do not necessarily indicate the sequence of topics.

16. **History of Agriculture and Rural Economics.** Lectures and recitations upon the history of agriculture; present agricultural methods in various countries; cost and relative profits of various farm operations and systems. Four times a week. Third term.
5. **Dairy Farming.** Lectures once a week upon breeds, and upon feeding, breeding and selecting dairy stock; equipment and management of dairy farms. Practicum, once a week in scoring and judging live stock, writing pedigrees, and calculating feeding standards. Second term.
6. **Butter Making and Cheese Making.** Practice in running operators, churning and working butter, etc., making cheese, and testing and pasteurizing milk. Four half days each week. Second term.
7. **Butter Making and Cheese Making.** Lectures and recitations. Two hours each week. Third term.

AGRICULTURAL CHEMISTRY

Professor Weber and Mr. Vinson.

1. **Principles of Chemistry and Chemical Nomenclature.** Lectures and textbook for three or four weeks, five times a week; then lectures twice a week on Chemistry of Non-metals, and laboratory practice three times a week. First term.
8. **Organic Chemistry.** Lectures twice a week; laboratory practice three times a week. Second term.
9. **Applications of Chemistry to Agriculture.** Lectures twice a week; laboratory three times a week. Third term.
4. **Laboratory.** Analysis of fertilizers, feed-stuffs, dairy products, fruits, vegetables, alcoholic liquors, etc. Five laboratory periods a week through the year.
7. **Chemistry of Milk and Milk-Testing.** Twice a week. Dairy Course.
6. **Laboratory,** five times a week through the year.

ANATOMY AND PHYSIOLOGY

Professor Bleile, Dr. Morrey

COLLEGES OF AGRICULTURE, PHARMACY, AND VETERINARY MEDICINE.

1. **Human Anatomy and Physiology.** Lectures, recitations and laboratory work. Five times a week. First and second terms.
2. **General Physiology.** Lectures, recitations and demonstrations. Three times a week. Third term. [Short Course in Agriculture]
4. **Histology and Histo-Chemistry.** Five times a week through the year.
5. **Microscopy.** Lectures and laboratory work. Twice a week. Third term.
6. **Bacteria.** in their relation to Milk, Butter and Cheese. Lectures and laboratory work. Twice a week. Second term.
7. **Bacteriology.** Three times a week. Second term. [Veterinary Medicine.]
8. **Bacteriology.** One lecture, one laboratory period, a week. Second term. [Pharmacy.]

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

First Semester

- 51.¹ **Human Anatomy and Physiology.** Lectures, recitations and laboratory work. Five times a week.
53. **Physiological Laboratory.** Three laboratory periods a week.
55. **Physiological Laboratory.** Five laboratory periods a week.
57. **Bacteriology.** One lecture, one laboratory period a week.
59. **Histology and Histo-Chemistry.** Laboratory. Five laboratory periods a week.
61. **Bacteriology.** One lecture, two laboratory periods a week.

Second Semester

54. Continuation of Course 53. Three laboratory periods a week.
56. Continuation of Course 55. Five laboratory periods a week.
58. **Microscopy.** Lectures and laboratory work. Twice a week. Last half of Semester.
60. Continuation of Course 59. Five laboratory periods a week.

ANCIENT ART

(See Greek Language and Literature.)

ARCHITECTURE

(See Drawing.)

ASTRONOMY

Professor H. C. Lord

COLLEGE OF ENGINEERING

2. **Astronomy and Geodesy.** Lectures on practical Astronomy, supplemented with practice with the instruments of the Emerson McMillin Observatory. Text-book, Doolittle. Four times a week. Third and first terms.

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

52. **General Astronomy.** Lectures and recitations. Five times a week. Second half, second semester.
54. **Mathematical Astronomy.** Five times a week. Second semester. Consult Professor Lord.
- 55, 56. **Theoretical Astronomy.** Lectures and Observatory practice. The theory of the undisturbed motion of a planet or comet and the calculation of ephemerides. Parabolic orbits from three complete observations. Orbits from three complete observations, including the eccentricity. Work in

¹ "Finding numbers" from 51 upwards always indicate Semester work.

the Observatory with the twelve-inch equatorial. Definitive orbits. Observatory work continued. Authorities: Watson, Klinkerfeus, Appolzer and the astronomical journals. Five times a week through the year.

- 57, 58. **Astro-Physics.** Lectures on the theory of the Spectroscope and its use in Astronomy, supplemented with practice with the large spectroscope of the Observatory. Five times a week, through the year.
Astronomy 55, 56, 57 and 58 are open only to students who have had Calculus.

BOTANY

Professor Kellerman, Mr. Wilcox

COLLEGES OF AGRICULTURE, PHARMACY, AND VETERINARY MEDICINE.

1. **Elementary Botany.** Lectures, recitations and field work. Text-book: Kellerman's *Elementary Botany and Flora of Ohio*. Must precede all other courses in this department. Five times a week. Third term.
4. **Medical Botany.** Twice a week, second term. Similar to course 56 in the College of Arts, Philosophy and Science.
6. **Physiological Botany.** Lectures and laboratory work. Five times a week. First term.
7. **Physiological and Economic Botany.** Lectures and laboratory work. Four times a week. Second term.
8. **Economic Botany and Vegetable Pathology.** Lectures and laboratory work. Five times a week. Third term.

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

First Semester

51. Similar to Course 1 in College of Agriculture.
53. Similar to Course 6 in the College of Agriculture. Four times a week.
55. **Systematic and Physiological Botany.** Lectures, laboratory and field work. Four times a week.
57. **Laboratory work.** Short Course. Two or three times a week.
59. **Advanced Laboratory work in Histology and Physiology.** Five times a week. Open to students who have taken Course 53 or 55.
61. **Systematic Botany, Phenogamic and Cryptogamic.** Three to five times a week. Open to students who have taken Course 53 or 55.
63. **Dendrology.** Lectures and field work. Once a week.

Second Semester

56. **Medical Botany.** Laboratory work. Twice a week. First half of semester. This Course must be preceded by Course 53.
58. Continuation of Course 57. Two or three times a week.
60. Continuation of Course 59. Five times a week.
62. Continuation of Course 61. Three to five times a week.
64. **Structure and Diseases of Timber.** Lectures and laboratory work. Once a week.

CERAMICS

(See Clay-working and Ceramics)

CHEMISTRY

(See General Chemistry)

CIVIL ENGINEERING

Professor Brown and Mr. Sherman

1. **Land Surveying.** Recitations and field work. Johnson's Theory and Practice of Surveying. Six times a week. First term. Second year.
2. **Railroad Surveying.** Recitations and field work. Searle's Field Engineering. Six times a week. Third term. Second year.
3. **Topographical Surveying.** Lectures, field work and drawing. Johnson's Surveying used for reference. Four times a week. First term. Third year.
4. **Topography.** Platting, pen and tinted work. Reed's Topographical Drawing and Sketching. Four times a week. Second term. Second year.
5. **Working Drawings in Railway Construction.** Lectures and drawing and estimates of simple structures. Three times a week. Second term. Third year.
6. **Stereotomy.** Recitations, drawing and model cutting. Warren's Stereotomy. Four times a week. Second term. Third year.
7. **Bridge Strains.** Recitations and lectures. Part I of Dubois's Strains in Framed Structures. Five times a week. Third term. Third year.
8. **Bridge Designing.** Lectures and drawing. Part II of Dubois's Strains in Framed Structures and Johnson's Modern Framed Structures used for reference. Five times a week. First term. Fourth year.
10. **Sanitary Engineering.** Lectures. Five times a week. Third term. Fourth year.
14. **Civil Engineering Laboratory.** Cement testing, adjustment of instruments. Twice a week. Second term. Fourth year.
15. **Masonry Construction.** Recitations and lectures. Baker's Masonry Construction. Five times a week. First term. Fourth year.
16. **Highways.** Lectures on roads, streets, canals, railroads and rivers. Five times a week. Second term.
Fourth year students in Civil Engineering must elect either 16 or 17.
17. **Railway Location.** Recitations and lectures. Wellington's Economic Theory of Railway Location. Five times a week. Second term.
Fourth year students must elect either 16 or 17.
18. **Water Supply.** Recitations and lectures. Fanning's Water Supply. Five times a week. Third term. Fourth year.
19. **Trusses.** Lectures and drawing. Five times a week. Third term.
Third year, Mine Engineering and Mechanical Engineering.

20. **Roof Trusses.** Lectures and drawing. Five times a week. First term.
Third year, Architecture.
21. **Surveying.** Recitations and field work. Davies's Surveying. Three times a week. Third term.
Third year, Architecture.

CLAY WORKING AND CERAMICS

Professor Edward Orton, Jr., Mr. Evans

1. **Quantitative Analysis of Simple Minerals.** This course is open only to those who have completed General Chemistry 12. The student begins the quantitative analysis of salts and chemicals, and later works on limestone and other easy minerals. Five times a week. First Term.
2. Continuation of Course 1. The student begins the quantitative analysis of clays and complex minerals, working first on samples of known composition, and later on unknown materials. Five times a week. Second Term.
3. Continuation of Course 2. The student completes the ultimate analysis of clays, and begins the proximate or "Rational" analysis of clays and pottery bodies, following the methods of Seger. Five times a week. Third Term.
4. **A series of lectures** (supplemented by frequent recitations) on the origin, composition and properties of clays and other minerals employed in the clay, glass, and cement industries. Five times a week. First term. Laboratory work in the physical testing of clays, and in their mechanical analysis.
5. Continuation of Course 4. A series of lectures, with recitations, on the general principles of the manufacture of bricks and the coarser clay wares, including the selection and winning of the materials, their preparation, manufacture, burning and testing. Five times a week. Second term.
6. Continuation of Course 5. A series of lectures, with recitations, on the classification and manufacture of pottery and the finer grades of clay-ware, including the selection of the materials, preparation of the bodies, manufacture of the ware, preparation of the glazes, burning and decoration of the wares, and the pyrometry of ceramics. Five times a week. Third Term.
7. Continuation of Course 3. Open only to those who have completed that course. The analysis of glasses and glazes, devoting special attention to the use of hydrofluoric acid in silicate analysis, and to the determination of lead and boracic acid. Five times a week. Second Term.
8. Continuation of Course 7. The further analysis of colored glasses and glazes, enamels, and ceramic colors, especial attention being given to the determination of the coloring and opacifying oxides. Five times a week. Third Term.

9. **Laboratory work in Ceramics.** Open only to those who have completed Courses 3 and 6. The student will first undertake the production of such wares as are made from single clays, such as bricks for building and paving purposes; then those wares whose bodies are made by blending two or more natural clays, such as firebrick and refractory materials, earthenwares, stonewares, and yellow wares; and, lastly, such wares as are made by the building up of an artificial body, such as is used in the production of white wares, porcelain, and in glazed and encaustic tiles. In each case the bodies made will be made into appropriate wares, burnt, and tested as to quality. Five times a week. First Term.
10. Continuation of Course 9. The student will practice on the production of glasses and glazes, beginning with the natural "slip glazes," and taking successively the soft raw-lead glazes, the fritted lead-boracic-acid glazes, and the hard-fire leadless porcelain glazes. In each case the glazes will be made for use on some definite body, and will be made to "fit" it accurately. Five times a week. Second Term.
11. Continuation of Course 10. The student will practice on the use of the coloring and opacifying oxides on glazes, and on the production of vitrifiable colors for the underglaze and overglaze decoration of pottery, and in the production of body-stains for encaustic wares. Five times a week. Third Term.
12. A series of lectures on the manufacture and testing of natural and Portland cements and hydraulic silicates. Open to students who have had Courses 3 and 6. Facilities for laboratory work in making, burning, and testing cements will be given. Five times a week. Second Term.
13. Practice in making drawings and specifications for brick kilns, brick dryers, pottery kilns, gas producers, glass pot-furnaces, glass tanks, cement kilns, and burning cylinders. Students will be allowed to specialize along the lines they intend to follow. Twice a week. Second Term.
14. **Mineral Reports.** A series of lectures and recitations, with frequent quizzes, on the prospecting and opening up of mineral properties, and in the inspection of factories and ceramic plants, with a view to recommending economic changes in them. Frequent trips will be made to the important clay-working centers of Ohio for field-work and practice in observation. Students will be allowed to specialize along their intended lines. Five times a week. Third Term.
15. **Thesis.** A satisfactory thesis, involving original investigation and special study must be completed as a requisite for graduation. The subjects for these must lie inside the range of ceramic work, but can be made to follow the lines along which the student has been specializing.

DRAWING

Professor Bradford, Mr. French, Mr. Lewis

1. **Freehand Drawing.** Practice and occasional Lectures. Pencil, charcoal, and pen drawing from copies, models and plaster casts.

One drawing period a week, three terms, Industrial Arts.

Two drawing periods a week, first term, Short Mining and Domestic Science.

Two drawing periods a week, first and second terms; all four-year Engineering Courses: except Electrical Engineering—one drawing period a week, first and second term.

Three drawing periods a week, three terms, Architecture.

2. **Lettering.** Practice and occasional Lectures.

Two drawing periods a week, third term, Electrical Engineering and Industrial Arts.

Three drawing periods a week, third term, Civil, Mechanical and Mine Engineering, and Architecture.

3. **Mechanical Drawing.** Lectures or recitations, one period a week. Practice, two periods a week. Subjects: Orthographic, Isometric and Oblique Projection and elementary Working Drawings. First term.

Lectures or recitations two periods a week, Practice one period a week, in Mechanical, Mine and Electrical Engineering; three periods a week in Civil Engineering and Architecture. Subject: Descriptive Geometry. Second term.

Lectures or recitations, one period a week. Practice, two periods a week in Engineering Courses; four periods a week in Architecture. Subject: Shades, Shadows and Perspective. Third term, in all four-year Engineering and Industrial Arts Courses and the Course in Architecture. First term in the Short Mining and Domestic Science Courses.

4. **Draughting and Blue-printing.** Practice and occasional Lectures. Three periods a week, second term. Arranged especially for the students in the Short Mining Course. This Course must be preceded by Course (3).

5. **Technical Drawing.** Lectures and Practice. Rules and methods for working drawings, tracing, blue-printing, machine design and practice in making same to represent form and dimensions for shop use. Three periods a week. First term, Mechanical and Electrical Engineering Courses. This Course must be preceded by Courses (2) and (3).

7. **Photography.** Lectures and Practice. Lectures: Optics of Photography, chemistry of photography, exposing and developing, printing, lantern slides, orthochromatic photography and some of the applications of photography. Practice in outdoor, interior, instantaneous and flash-light photography, copying, lantern slides, and printing. Two periods a week. Architecture, first term. Civil, Mechanical and Mine Engineering, third term.

8. **Mechanical Drawing.** Lectures and Practice. Geometric and Projection Drawing. Two periods a week, first and second terms, Industrial Arts.

10. **Mechanical Drawing.** Lectures and Practice. Arranged especially for the students in Agriculture and Horticulture. Two periods a week, first term.

11. **Mechanical Drawing.** Lectures and Practice. Arranged especially for the students in Short Course in Ceramics, five periods a week, third term.

12. **Clay Modeling.** Modeling in Clay and Casting in Plaster, ornamental forms from designs, photographs, nature and original designs. Two periods a week; first, second and third terms.

Domestic Science Course, second term. Architectural Course, second and third terms. This Course must be preceded by Course (1).

13. **Technical and Decorative Design.** Lectures and Practice. Lectures on the principles of decorative design in monochrome, color and relief, and practice in the same. Two periods a week; first, second and third terms.
14. **Pen Drawing.** Two periods a week, first term. Arranged especially for the Course in Architecture. This Course must be preceded by Course (1).
15. **Technical Drawing.** Lectures and Practice. House Designing. Five periods a week, third term. Domestic Science.

ARCHITECTURE

1. **Orders of Architecture.** Detail drawing of the Orders, to accompany the study of Ancient Art. Five periods a week, second term.
2. **Styles of Architecture.** Lectures and drawing of Architectural Details representing the characteristic styles in Architecture. Five times a week, third term.
3. **Designing.** Lectures and Designing of Architectural structures adapted to modern requirements. Five periods a week; first, second and third terms.
4. **Specifications.** Lectures and Practice in preparing Specifications for Architectural Structures. Two periods a week, first term.
5. **Decoration and Ornament.** Lectures. The practice part of this Course will be incorporated in Courses (3) and (8). Three periods a week, second term.
6. **Estimates.** Lectures and Practice in preparing estimates for structures designed in Courses (3) and (8). Four periods a week, third term. The duties of a superintendent will be considered in this Course.
7. **Heating and Ventilating.** Lectures. The practical applications of this Course will be incorporated in Courses (3) and (8). Five periods a week, second term.
8. **Designing.** Lecture and Practice. Designing of buildings requiring steel and fire-proof construction. Five periods a week, third term.

ECONOMICS

(See History and Political Science.)

ELECTRICAL ENGINEERING

Assistant Professor Caldwell

2. **Electrical Engineering.** Lectures, Recitations and Problems. Theory of dynamo-electric machinery, including direct current and alternating current generators and motors; methods of regulation and control; circuits, lamps, and auxiliary apparatus; storage batteries; applications of electricity to street car and mine working; design, construction, and management of plant, central and isolated. Five times a week. First, second and third terms.

3. **Electrical Designing.** Including D. C. and A. C. generators and motors, transformers, distribution, etc. Three times a week, through the year.
4. **Electrical Laboratory.** A full experimental course in the handling and testing of generators, motors, storage batteries, circuits, etc. Three half days a week. First, second and third terms.
5. **Electrical Engineering.** A general course, with work in Class-room and Laboratory. Three times a week. First, second and third terms. [Fourth year Civil, Mechanical and Mine Engineering.]

ELOCUTION AND ORATORY¹

Professor Fulton

ELOCUTION

The Science of Expression. Recitations and Collateral Reading. Text-book: Fulton and Trueblood's *Practical Elocution*. Required in the second year in the English Course in the College of Arts, Philosophy and Science; and elective in all courses in the second, third, and fourth years of residence.

51. Man's Triune Nature. Delsarte Theories. Study and Development of the Vocal Organs. Physical Development. Respiration. Articulation. Pronunciation. Emphasis. Vocal Culture for Purity and Strength of Voice. Study and Drill in the Vocal Elements. Quality, Force, Form, Degree, and Stress, with their various combinations and illustrations. Theoretical Study of the Principles of Action. Illustrative Extracts. Twice a week. First semester.

52. Vocal Culture for Compass, Flexibility, and Sustaining Power of Voice. Physical Development continued. Study and Drill in the Vocal Elements: Pitch, Degree, Compass, Change, Melody, Cadence, Time, Quantity, Pause, Movement, Rythm, and Rate. Tone Color. Conception of Gesture. Actional Composition. Forensic Deportment. Technique of Action. Illustrative Extracts. Application of all elements to a few selections entire. Twice a week. Second semester.

ORATORY

The Art of Expression. Readings, Recitations, Speeches, Oratory, and Orators. Lectures, Recitations, and Prescribed Readings. Texts: Fulton and Trueblood's *Choice Readings* and *College Critic's Tablets*. Each class limited to twenty students, and open as an elective only to the third and fourth year students who have completed Courses 51 and 52.

53. Vocal Culture and Drill in Action indicated by the individual needs of class members. Rostrum-Business. Study of Poetry as representative Art in Oratory. Lectures on the Kinds of Discourse, Construction of Speeches, Forensic Oratory, Extempore Speaking; and Truth, Personality and Art in Oratory. Technical Training in Rendition. Analysis and Study of Readings. Recitations and Personations, including the oratorical scenes from *Julius Caesar* as a study in Oratorical and Dramatic Effect. Criticism upon each student's rendition from memory of four selections differing in style, and one extempore speech on a social, religious, scientific, lit-

¹ It should be remembered that this is a regular University department, the work of which is offered free to all University students.

erary or political topic of present interest. Close Criticism upon the Thought, Composition and Delivery of Original Orations, one of which is required of each member of the class. Twice a week. First semester.

54. Individual Vocal and Actional Drill continued. Oratorical Action. Lectures on Sacred, Panegyric and National Oratory, Eloquence, the Sources of Power in Oratory, and Oratorical Criticism. Oral Discussions and Debates on leading questions of the day required of each student. Study of the following ancient and modern orators: Demosthenes, Cicero, St. Paul, Chrysostom, Savonarola, Luther, Bossuet, Mirabeau, Kossuth, Castelar, Chatham, Burke, Erskine, Webster, Clay, Calhoun, Lincoln, Phillips, Beecher and Gladstone. From the study of these orators each student is required to prepare and deliver one Biographical Oration, one Extemporaneous Topical Speech on some event in the career of the orator under consideration, one declamation of a portion of some admired oration of the orator that day considered, and one Critique upon the style and delivery of the oration delivered. Twice a week. Second semester.

NOTE—The selection and number of great orators studied will be subject to change according to the number and individual needs of the students of each class from year to year.

SHAKESPEARE AND THE DRAMA

The Art of Expression. Lectures, Recitations, Plays and Prescribed Readings. Texts: Hudson's *Expurgated Shakespeare* and Dewitt's *Standard Plays*, Gervinus's *Commentaries*. Class limited to twenty students, and open as an elective only to third and fourth year residents who have completed Courses 51 and 52.

55. Technical Drill in Voice and Action indicated by the interpretative necessities of the plays studied. Impersonative Action. Stage-Business. Lectures on Dramatic Technique, the History of the Drama and great Dramatists. Analysis and incidental reading of one Modern Play. Plays offered: Knowles—*The Hunchback*; Halm—*Ingomar*; Schiller—*Mary Stuart*; Bulwer-Lytton—*Richelieu*; Knowles—*Virginus*; and Sheridan—*The School for Scandal*. Analysis and study of the Characters, Plot, and Incidents of one of Shakespeare's Tragedies; with a careful reading of the entire Play, and rendition from memory of the principal scenes. Plays offered: *Anthony and Cleopatra*, *Romeo and Juliet*, *Julius Cæsar*, *Hamlet*, *Macbeth*, and *Othello*. Twice a week. First semester.

56. Technical Drill continued. Lectures on Dramatic Criticism, and the Life and Methods of the Great Actors. Original Essays on assigned Characters of the Plays under consideration. Rehearsals of the tragedy studied in the preceding semester. Analysis and study of the Characters, Plot, and Incidents of one of Shakespeare's Comedies; with expressional reading of the entire play, and rendition from memory and with appropriate action of the principal scenes. Plays offered: *Merchant of Venice*, *Much Ado About Nothing*, *Twelfth Night*, and *As you Like It*. Twice a week. Second semester.

ENGLISH LITERATURE

Professor Barrows

FIRST SEMESTER

51. **An Introduction to English Literature.** Four times a week. (Must precede all other courses in this semester.)

53. **Poetry, from Spenser to Milton**, exclusive of the Drama. Twice a week
(Not offered in 1897-98.)
55. **The English Bible: Old Testament**. Once a week.
57. **Shakespeare**. Three times a week.
59. **The Novel**. Three times a week. (Not offered in 1896-97.)
61. **From Dryden to Johnson**. Twice a week. (Not offered in 1896-97.)
63. **Prose, from Cowper to Ruskin**, exclusive of Fiction. Three times a week.
(Not offered in 1897-98.)
65. **Masterpieces**. Three times a week.

SECOND SEMESTER

52. Repetition of Course 51. Four times a week. (Must precede all other courses in this semester.)
54. **Prose, from Spenser to Milton**. Twice a week. (Not offered in 1897-98.)
56. **The English Bible: New Testament**. Once a week.
58. **The Drama**, from the Miracle Plays to the Closing of the Theatres. Three times a week.
60. **The Drama since the Restoration**. Twice a week. (Not offered in 1896-97.)
62. **American Literature**. Three times a week. (Not offered in 1896-97.)
64. **Poetry, from Cowper to Browning**, exclusive of the Drama. Three times a week. (Not offered in 1897-98.)
66. **Masterpieces**. Three times a week.

Courses 65 and 66 are open to competent graduates, and to undergraduates who have taken all other Courses offered in the same semester.

Courses 59, 60, 61 and 62 alternate with 53, 54, 63 and 64.

ENTOMOLOGY

(See Zoology and Entomology.)

GENERAL CHEMISTRY

Professor McPherson, Professor Norton, Mr. Foulk, Mr. Hughes

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

FIRST SEMESTER

51. **Elementary Chemistry**. Arranged for students who have little or no knowledge of Chemistry. Three sub-divisions; one lecture, one quiz, and three hours' laboratory practice weekly. In the laboratory the student performs an extended series of experiments upon the elements and is thoroughly prepared for the study of analytical chemistry. Three hours' credit.

53. **Qualitative Analysis.** Laboratory, Lecture, and Quiz. Students familiarize themselves with the properties of the elements with a view to their detection, and then apply this knowledge to analysis of unknown substances. Five times a week. This Course must be preceded by Courses 51 and 52.
55. **Quantitative Analysis.** Laboratory, Lecture, and Quiz. Students familiarize themselves with the scientific methods of quantitative work by the analysis of appropriate substances. Five times a week.
57. **Organic Chemistry.** Laboratory, Lectures, and Recitations. Open only to students who are familiar with at least the principles of qualitative and quantitative analysis. Five times a week.
59. **Advanced Chemistry.** Arranged for special students who have sufficient training to enable them to do research work. This Course must be preceded by Course 58. Five times a week.
61. **Theoretical Chemistry.** Lectures and recitations. Three times a week.
63. **Chemical Seminary.** Special students will meet to discuss special topics and reviews of current literature. Once a week.

SECOND SEMESTER

52. Continuation of Course 51. Three hours' credit.
54. Continuation of Course 53, including use of Spectroscope. Five times a week.
56. **Quantitative Analysis.** Continuation of Course 55, including Volumetric and Electrolytic analysis. Five times a week.
58. **Quantitative Analysis.** Laboratory. Continuation of Course 57. Students familiarize themselves with such work as organic combustions, determination of nitrogen, the absolute and Kjeldahl methods, determination of vapor densities. Five times a week.
60. Continuation of Course 59. Five times a week.
62. Continuation of Course 61. Three times a week.
64. Continuation of Course 63. Once a week.
66. Repetition of Course 55. Five times a week.

Students who can elect but one year of Analytical Chemistry, will take Courses 53 and 66. Others will take 53 and 54, then follow with 55, 56, 57 and 58, in order given.

COLLEGES OF ENGINEERING AND PHARMACY

7. **Elementary Chemistry.** Inorganic. Lecture, Laboratory and Quiz. Laboratory work; First Term, experiments upon the non-metals; Second Term, principles of qualitative analysis. Five times a week. First and Second Terms. (All four-year Engineering Courses, and long and short Courses Ceramics, Mine Engineering and Pharmacy.)
12. **Qualitative Analysis.** Five times a week. Third Term.
13. **Qualitative Analysis.** Three laboratory periods a week. Second Term. (Short Course in Mine Engineering.)
4. **Laboratory work.** Selections are made that best illustrate the principles of gravimetric, volumetric and electrolytic analysis. Five times a week. First, Second and Third Terms. (Second year, Pharmacy.)

8. **Laboratory and Lectures.** Organic. Five times a week. First Term. (Fourth year, Pharmacy.)
9. **Laboratory.** Organic. Five times a week. Second and Third Terms. (Fourth year, Pharmacy.)
11. **Toxicology.** Lectures. Poisons, their effects, antidotes and detections. Four times a week. Third Term.

A course of lectures is also given on Applied Chemistry. These are made as practical as possible by visits to different chemical works. When possible, specialists deliver lectures on subjects belonging to their particular line of work. (Consult Professor McCherson for particulars.)

GEOLOGY

Professor Orton and Mr. Fownocker

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

FIRST SEMESTER

51. **Cosmical Geology,** Lithological Geology, Dynamical and Structural Geology. Books of reference used by students in preparation of their work: Green's *Physical Geology*, Geike's *Text-book of Geology*, LeConte's *Elements of Geology*, Hunt's *Chemical Geology*, Daubree's *Geologic Experimentale*. Five times a week.
53. **Paleontology.** Museum work. Determination of groups of Ohio fossils.
55. **Petrography I.** Laboratory and lectures. Optical crystallography, with practical exercises. Practical determination of rock-forming, macroscopically and microscopically. Study of the igneous rocks in the hand specimen and thin section. Twice a week. The Sturtz rock collection and Voight and Hochgesang thin sections of typical minerals and rocks will be carefully studied. Books of reference: Michel Levy—*Les Minneaux des Roches*; Rosenbusch—*Mikroskopische Physiographie der Petrographisch Wichtigen Mineralien*, 3d ed.; *Mykroschpische Physiographie der Massigen Gesteine*, 2d ed.; Teall's *British Petrography*; Spottiswoode's *Polarization of Light*. Pre-requisites: Chemistry, 51 and 52; Metallurgy, 52 (Mineralogy and Crystallography).
57. **Petrography II.** Laboratory and lectures. Study of the igneous rocks, the crystalline schists and the metamorphic rocks. Five times a week. Books of reference as in Course 55, with free use of the French, German and English petrographical literature and publications on the crystalline schists and metamorphic rocks. Pre-requisites as in Course 55, with the addition of Geology.

SECOND SEMESTER

52. **Paleontological Geology,** Historical Geology. Books of reference used by students in preparation of their work: Nicholson's *Paleontology*, Zittel's *Paleontologie*, *Ohio Geological Reports*, *Paleontology of New York*. Five times a week.

- 54. Continuation of Course 53.
- 56. Continuation of Course 55. Twice a week.
- 58. **Petrography.** Five times a week.

COLLEGES OF AGRICULTURE, ENGINEERING AND PHARMACY

- 1. **Physical Geography.** Lectures and Recitations. *Geikie's Elementary Lessons*, supplemented by lectures, map drawing, and the study of geographical models. Five times a week. Third term.
- 2. **General Geology.** Cosmical Geology, Lithological Geology, Dynamical and structural Geology. Books of reference used by students in preparation of their work: *Green's Physical Geology*, *Geikie's Text Book of Geology*, *LeConte's Elements of Geology*, *Hunt's Chemical Geology*, *Daubree's Geologic Experimentale*. Five times a week. First term.
Paleontological Geology, Historical Geology. Books of reference used by students in preparation of their work: *Nicholson's Paleontology*, *Zittel's Paleontologie*, *Ohio Geological Reports*, *Paleontology of New York*. Five times a week. Second term.
- 3. **Economic Geology.** Lectures. Economic materials of stratified rocks, clays, limes, cements, coals, iron, ores, etc., phosphates, petroleum. Economic materials derived from veins and igneous rocks, gold, silver, copper, mercury. Gems. Books of reference used by students in preparation of their work: *Publications of U. S. Geological Survey*, *State Geological Surveys*, *Phillips' Ore Mining*. Five times a week. Second term.
- 4. **Elementary Geology.** Lectures and Recitations. Text-book: *LeConte's Class Book of Geology*. Five times a week. Second term.

GERMAN

Professor Eggers and Mr. Eisenlohr

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

FIRST SEMESTER

- 51. **Elementary German.** Four times a week.
- 53. **Science Reading.** Twice a week.
- 55. **German Literature.** Lectures upon outline of German Literature. Reading of Selections. Four times a week.
- 57. **The German Drama.** Lectures and reading of Selections. Three times a week.
- 59. **Faust I.** Twice a week.
- 61. **Middle High German.** Mediaeval Lyrics. Twice a week.
- 63. **Deutsche Culturgeschichte.** Lectures in German. Once a week.

SECOND SEMESTER

- 52. Continuation of Course 51. Four times a week.
- 54. Continuation of Course 53. Twice a week. 53 and 54 must have been preceded by 51 and 52.

56. **German Lyrics.** Lectures and Reading of Selections. Four times a week. 55 and 56 must have been preceded by 51 and 52.
58. **The German Prose.** Lectures and Reading of Selections. Three times a week. 57 and 58 must have been preceded by 51, 52, 55 and 56.
60. **Faust II.** Twice a week.
62. **Mediaeval Epics.** Twice a week.
64. **Deutscher Aufsatz.** Lectures on methods of teaching German. Once a week. Courses 59, 60, 61, 62, 63 and 64 can be taken only with the approval of Professor Eggers; and must have been preceded by Courses 51, 52, 55 and 56, or their equivalents.

COLLEGE OF AGRICULTURE, ENGINEERING AND PHARMACY

1. **Elementary.** Four times a week, through the year.
2. **Science Reading.** Twice a week, through the year.
4. **German Literature.** Four times a week, through the year.

GREEK LANGUAGE AND LITERATURE

Professor Smith and Mr. Hodgman

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

Elementary Greek. White's *First Greek Book* and one or two books of Xenophon's *Anabasis*. This Course is designed to meet the wants of those who are deficient in the Greek required for admission. It cannot receive University credit. Five times a week through the year.

FIRST SEMESTER

51. **Xenophon's Memorabilia.** Greek Prose Composition. Four times a week.
53. **Lysias—Select Orations.** Greek Prose Composition. Four times a week.
55. **Thucydides—Book I: Plato—*Apology of Socrates*.** Three times a week.
57. **Homer—Iliad I-VI.** Lectures on Epic Poetry. Three times a week.
59. **Lectures on History of Ancient Art.** (Not offered in 1896-97.) Twice a week.

SECOND SEMESTER

52. **Herodotus—Book VII. *History of Greece*.** Four times a week.
54. **Homer—Odyssey.** Four times a week.
56. **Demosthenes—Olynthiacs.** Lectures on the Attic Orators. Three times a week.
58. **Attic Drama.** Euripides or Sophocles; one play. Three times a week.
60. **Continuation of Course 59.** Twice a week.

COLLEGE OF ENGINEERING

1. **Lectures on History of Ancient Art.** Twice a week, through the year.

HISTORY AND POLITICAL SCIENCE

HISTORY

Professor Knight, Assistant Professor Ames

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

Courses 51 and 52, in the order named, must precede all other Courses in European History; except that Course 53 may be taken in connection with Course 51, and Course 54 in connection with Course 52.

FIRST SEMESTER

51. **General History of Europe to the Close of the Middle Ages.** Lectures, text-books and collateral readings. Emerton's *Introduction to the Middle Ages*; Emerton's *Medieval Europe*. Lectures twice a week, quiz once a week. Three times a week.
53. **Political and Constitutional History of England to the Accession of the Stuarts.** Lectures text-book and assigned readings. Gardiner's *Student's History of England*. Three times a week.
55. **Political and Constitutional History of the United States.** Lectures, text-books and prescribed readings. Hart's *Formation of the Union*; Wilson's *Division and Re-union*. Two sections. Four times a week. This Course is repeated in the Second Semester (as Course 56). Of students who are required to take this subject, those whose names begin with the letters from A to K will take it in the First Semester; others will take it in the Second Semester (as Course 56).
57. **History of Europe from 1789 to 1815.** The French Revolution. Lectures, recitations and collateral reading. Stephen's *Europe*. Three times a week.
59. **Roman History and Institutions.** Lectures and text-book. (Not offered in 1896-97.) Three times a week.
61. **Pro-Seminary for research in work in American History and Political Science.** Two hours a week (at one meeting). Open only to those who have had Course 55 or 56, or equivalent work in American History.

SECOND SEMESTER

52. **General History of Europe from the close of the Middle Ages to the French Revolution.** Lectures, text-book and collateral reading. Drury's *Modern History*. Lectures twice a week, quiz once a week. Three times a week.
54. **Political and Constitutional History of England from the Accession of the Stuarts to the present time.** Lectures, text-book and assigned readings. Gardiner's *Student's History of England*. Three times a week.
56. **Political and Constitutional History of the United States.** Lectures, text-books and prescribed reading. Hart's *Formation of the Union*; Wilson's *Division and Re-union*. Two sections. Four times a week. (This is a repetition of Course 55 and will be taken in the Second Semester by those students (of whom it is required) whose names begin with letters from L to Z).

58. **History of Europe since 1815.** Lectures, text-books and assigned reading. Fyffe's *Modern Europe*. Three times a week.
60. **History of the Period of the Protestant Reformation.** Lectures and text-book. Hauser's *Era of the Reformation*. (Not offered in 1896-'97). Three times a week.
62. **Pro-seminary for research work in American History and Political Science.** Two hours a week (at one meeting). This is a continuation of Course 61, and is open only to those who have had Course 61.
64. **American Archaeology and Anthropology.** Lectures and text-book. Twice a week.

ECONOMICS

Professor Knight, Assistant Professor Clark

FIRST SEMESTER

Course 51 or Course 52 must precede all other Courses.

51. **Elements of Political Economy.** Recitations, lectures and individual investigations. Walker's *Political Economy*. Two sections. Four times a week. This Course is repeated in the Second Semester (as Course 52.) Of students who are required to take the subject, those whose names begin with the letters L to Z will take it in the First Semester; others will take it in the Second Semester (as Course 52.)
53. **The History of Industrial Society.** Lectures and assigned readings. Three times a week.
55. **Practical Problems in Economics.** A rapid study of immigration, money, railroads, etc. Lectures and collateral readings. Twice a week.
57. **Currency and Banking.** Lectures and collateral readings. (Not offered in 1896-'97.) Twice a week.
59. **History of Political Economy.** Text-book and lectures. Ingram's *History of Political Economy*. Twice a week.

SECOND SEMESTER

52. **Elements of Political Economy.** Recitations, lectures and individual investigations. Walker's *Political Economy*. Two sections. Four times a week. (This is a repetition of Course 51, and will be taken in the Second Semester by those students (of whom it is required) whose names begin with the letters from A to K.)
54. **The History and Theory of Socialism.** Lectures, text-books and collateral readings. Ely's *French and German Socialism*; Schaeffle's *Quintessence of Socialism*. Lectures twice a week, quiz once a week. Three times a week.
56. **Industrial and Social Reforms.** A study of the labor problem, charities, monopolies, etc. Lectures and collateral readings. Twice a week.
58. **The Transportation Problem.** Lectures and collateral readings. (Not offered in 1896-'97.) Twice a week.

60. **Principles of the Science of Finance.** Lectures and text-book. A study of government financiering, the budget, etc. Adams's *Principles of Public Finance*. Three times a week.

POLITICAL SCIENCE

Professor Knight

FIRST SEMESTER

51. **International Law.** Lectures and text-book. A study of public international law and of the important modern treaties. Twice a week. Open only to those who have had Courses 51, 52 and 55 (or 56) in History.
53. **Political Institutions of the United States.** Lectures and recitations. A study of the origin and nature of the political institutions of the United States, and an analysis of the form and powers of the government. Bryce's *American Commonwealth*; Burgess's *Political Science*. Three times a week. Open only to students who have had History 55 or 56.

SECOND SEMESTER

52. **Municipal Government.** Lectures and collateral reading. A study of the development and status of modern municipalities, and a comparative study of recent American municipal charters. Twice a week.
54. **Comparative Political Institutions of Europe and America.** Lectures, recitations and collateral readings. A comparative study of the political institutions and governmental forms and powers in the United States, England, Germany, France and Switzerland. Burgess's *Science and Constitutional Law*. Three times a week. Course 54 must be preceded by Course 53.

COLLEGE OF AGRICULTURE

HISTORY

5. **Political and Constitutional History of the United States.** (See Course 55 in the College of Arts). Four times a week. First Term and first half of Second Term.

ECONOMICS

1. **Elements of Political Economy.** (See Course 51 in the College of Arts). Four times a week. Last half of Second Term, and Third Term.

HORTICULTURE

Professor Lazenby

1. **Elements of Horticulture.** Lectures and practice in laboratory, greenhouse, gardens, orchard, ornamental grounds and forests. A study of special garden crops, preparation of soil, drainage and irrigation, fertilizers, tools, and implements, buildings.
- Greenhouse construction and management; crops of the vegetable forcing-house.
- Propagation, multiplication, germination, transplanting, budding, grafting and pollinating.
- Four times a week, through the year.

5. **Pomology and Viticulture.** Four times a week. First term.
6. **Vegetable Gardening and Seed Growing.** Four times a week. Second term.
7. **Small Fruit Culture.** Including the theory and practice of spraying plants. Four times a week. Third term.
8. **Elements of Floriculture.** Management of house plants, ferneries, wardian cases, climbing vines and flowering bulbs. Twice a week. First term.
9. **Commercial Floriculture.** Twice a week. Second term.
10. **Amateur or Home Flower Gardening.** Twice a week. Third term.
11. **Arboriculture.** Lectures and field work. A study of native trees and shrubs; their uses for shelter, shade and ornament; method of propagation, culture. Twice a week. First term.
12. **Forestry.** Lectures and recitations. A study of the influence of forests upon soils, crops and climate; value of trees for timber; how to improve existing woodland; establishment and management of plantations of forest trees; forestry in Europe. Twice a week. Second term.
13. **Landscape Gardening.** Lectures and practice. The principles of æsthetics as applied to natural scenery; the adornment of home grounds, including landscape engineering, landscape architecture and landscape horticulture. Twice a week. Third term.

INDUSTRIAL ARTS AND SHOPWORK

INDUSTRIAL ARTS

Professor Williston, Mr. Knight, Mr. Weick, Mr. Sleffel

1. **Tools and Machines.** Lectures and recitations on hand and machine tools and the principles underlying their construction and operation, and materials used in construction.
2. **Designing.** Problems in design, to accompany Course 1. Three times a week, second and third terms.
3. **Shop Equipment, Appliances, and Management.** A continuation of Course 1. Three times a week. Third term.
4. **Advanced Designing.** A continuation of Course 2. Three drawing periods a week. Three terms.
5. **Workshop Appliances.** Lectures and problems in shop methods and means of turning out work economically for the market. Twice a week. Second term.

SHOP WORK

1. **Carpentry and Pattern Making.** Exercises and practice in carpentry, wood-turning and pattern making, including sawing, planing, mortising, splicing, framing and other work involving the use of the ordinary carpenter tools; center and chuck turning; and the making of patterns and core boxes.
2. **Forging.** Exercises and practice in iron and steel forging, including such operations as drawing, bending, forming, upsetting, welding and the making and tempering of punches, drills, chisels, lathe tools, springs.

3. **Foundry Work.** Exercises and practice in tempering sand and preparing moulds of machine parts in the sand, core-making, melting iron and brass, and pouring castings.
4. **Chipping and Filing.** Exercises and practice in vise work, including surface chipping in cast and wrought iron, surface filing, squaring, fitting, finishing, and the scraping of surface plates.
5. **Machine Work.** Exercises and practice in hand-turning in iron and brass on speed lathes; in straight and taper turning, boring, fitting, chucking, thread cutting on engine lathes.
6. **Advanced Machine Work.** Exercises and practice on planer, shaper, drill, milling and grinding machines, the construction of working parts of actual machines, and making, tempering and grinding standard plugs, counter bores, milling cutters, drills, taps, reamers.

LATIN

Professor Derby, Mr. Hodgman

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

FIRST SEMESTER

51. **Cicero—***Cato Major* and *Laelius*; **Livy—***Book XXII.* Exercises in re-translation. Four times a week.
53. **Horace—***Satires*; **Pliny—***Letters.* Four times a week.
55. **Plautus—***Captivi*; **Horace—***Epistles*; **Martial—***Selections.* Three times a week. Open to all who have taken Courses 51, 52, 53 and 54.
57. **Lucretius**; **Cicero—***de natura deorum*; **Electives.** Three times a week. Open to those who have taken Courses 51, 52, 53 and 54.
59. **Pharmaceutical.** Five times a week.
61. **Teachers' Course.** Twice a week. Open to those who have taken Courses 51, 52, 53, 54.

SECOND SEMESTER

52. **Livy continued**; **Horace—***Odes.* Four times a week.
54. **Tacitus—***Histories*; **Juvenal—***Satire.* Four times a week.
56. **Tacitus—***Annals*; **Suetonius—***Selections*; **Vellieus Paterculus.** Three times a week. Open to those who have taken Courses 51, 52, 53, 54.
58. **Elegiac Poets** (Catullus, Tibullus, Propertius, Ovid); **Selections.** Three times a week. Open to those who have taken Courses 51, 52, 53, 54.
60. **Pharmaceutical**—Continuation of Course 59.
62. Continuation of Course 61.
Courses 51 and 52 are required of the first year students in Arts, and in Latin Philosophy.
Courses 53 and 54 are required of students in Arts, and in Latin Philosophy.

COLLEGE OF PHARMACY

1. **Pharmaceutical.** Five times a week. Three terms.

LAW

FIRST YEAR

Contracts (Bishop); Elementary Law (Robinson, Blackstone, Walker); Sales (Tiedeman); Torts (Cooley). First term.

Contracts; Criminal Law (Clark); Elementary Law, Moot Court, Sales, Torts. Second term.

Agency (Meechem; Common Law Pleading (Shipman); Criminal Law, Elementary Law, Moot Court. Third term.

SECOND YEAR

Bailments (Lawson-Croswell); Code Pleading (Phillips); Commercial Law (Tiedeman); Corporations—Private (Taylor); Evidence (Underhill); Moot Court; Real Property (Tiedeman); Study of Cases (Wambaugh). First term.

Bailments, etc.; Code Pleading; Commercial Law; Corporations (Private); Evidence; Moot Court; Real Property; Willis (Schouler). Second term.

Bailments, etc.; Code Pleading; Corporations (Private); Evidence; Moot Court; Partnership (Parsons); Real Property. Third term.

THIRD YEAR

Circuit and Supreme Court Practice, etc.; Constitutional Law, Federal and State (Black); Equity Jurisprudence (Fetter); Federal Practice; Insurance; Municipal Corporations (Tiedeman); Probate Practice; Civil Code. First term.

Construction of Commercial and Trade Contracts (Jones); Constitutional Law, Federal and State; Equity Jurisprudence; Insurance; International Law, etc.; Municipal Corporations; Probate Practice, Civil Code. Second term.

Equity Jurisprudence; International Law, etc.; Negligence of Municipal Corporations (Jones); Probate Practice, Civil Code. Third term.

MATHEMATICS

Professor Bohannon, Associate Professor Ray, Assistant Professor McCoard, Mr. Arnold, Mr. Swartzel, Lieutenant Martin

A. TERM COURSES

1. **Elementary Algebra.** *Venable.* Five times a week. First term. (Short Course in Agriculture).
2. **Elementary Algebra.** *Wentworth.* Five times a week. Three terms.
3. **Plane Geometry.** *Venable.* Five times a week. First or second terms.
13. **Solid Geometry.** *Venable.* Five times a week. Second term.
14. **Plane Trigonometry.** *Loney.* Five times a week. First or third terms.
15. **Analytical and Spherical Trigonometry.** *Loney,* with notes on Spherical Trigonometry. Twice a week. Second term.
16. **College Algebra.** *Taylor.* Three times a week. Second term.
17. **Plane Analytics.** *Nichol.* Five times a week. Third term.
18. **Space Analytics and Differential Calculus.** *Loney. Edwards.* Five times a week. First term.

19. **Differential Calculus.** *Edwards.* Five times a week. Second term.
20. **Integral Calculus.** *Edwards.* Five times a week. Third term.
11. **Differential Equations.** Lecture. Once a week. First term.
8. **Least Squares.** Lectures. Twice a week. First term.

B. SEMESTER COURSES

FIRST SEMESTER

51. **Plane Trigonometry** (*Anderegg*) and 53, **Plane Analytics.** Three times a week.
55. **Plane Trigonometry** (*Loney*) and 57, **Algebra** (*Taylor*). Five times a week.
59. **Space Analytics** (*Venable*) and 61, **Differential Calculus** (*Edwards*). Five times a week.
63. **Advanced Mathematics.** Topics will be changed from year to year to meet the wishes of the students. Selections may be made from the following courses: (a) Advanced Calculus (*Picard Houel*); (b) Differential Equations (*Johnson, Forsythe, Craig*); (c) Higher Plane Curves (*Salmon*); (d) Advanced Analytical Geometry (*Casey, Salmon*); (e) Analytical Geometry of Three Dimensions (*Chas. Smith, Frost, Salmon*); (f) Theory of Equations (*Burnside and Panton*); (g) Modern Higher Algebra (*Chrystal, Salmon, Serret, Cole's Netto*); (h) Modern Geometry (*Cremona, Reye, Steiner, Von Staudt, Charles*); (i) Determinants (*Muir*); (j) Elliptic Functions (*Weber, Halphen, Durege, Hermite, Greenhill, Briot and Bouquet*); (k) General Theory of Functions (*Forsythe, Harkness and Morley, Tannery, Weierstrass, Durege, Thoame, Biermann*); (l) Potential Function (*Clausius, Riemann, Dirichlet, Peirce*); (m) Mathematical Theory of Electricity (*Mascart and Foubert*); (n) Higher Geodesy (*Clarke, Helmert, Jordan*); (o) Spherical Harmonics (*Byerly, Ferrers, Heine*); (p) Mathematical Optics. Five times a week.
65. **Problems on all past work.** Once a week.

SECOND SEMESTER

52. **Elementary Calculus** (*Osborne*) and 54, **Theory of Equations.** Three times a week.
56. **Algebra** (*Taylor*), and 58, **Plane Analytics** (*Loney*). Five times a week.
60. **Calculus and 62, Differential Equations.** *Edwards.* Five times a week.
64. Continuation of Course 63. Five times a week.
66. Continuation of Course 65. Once a week.

MECHANICAL ENGINEERING

Professors Magruder and Williston, and Assistant Professor Hitchcock

3. **Mechanism.** Lectures and recitations on the principles of mechanism and mechanical movements. Five times a week. Second term.
The accurate laying out of movements, embodying the principles of mechanism. Twice a week. Third term.

6. **Analytical Mechanics.** Five times a week. First and second terms.
7. **Strength of Materials.** Recitations and lectures on the elastic and ultimate resistance of the materials of engineering to stress and their use in structures and machines. Lectures on elementary hydraulics and the flow of water through orifices and pipes over weirs, and in streams, and on measuring the same. Five times a week. Third term.
8. **Thermodynamics.** Lectures and recitations on the transformation of heat and mechanical energies. Ideal Indicator diagrams of steam, air and gas engines; the flow of gasses through pipes and orifices. Five times a week. Third term, and in 1896-97 in first term of Fourth Year.
9. **Prime Movers.** Lectures and recitations on actual steam, hot air, and gas engines, steam boilers, turbines, and water motors; their construction, operation and efficiencies. Five times a week. First term.
10. **Machinery and Millwork.** Lectures and recitations on the efficiency of elementary and aggregate combinations in machinery, their economy in first cost and use, including valve motions and governors. Five times a week. Second term.
12. **Experimental Engineering Laboratory.** Twice a week. First term. Third year.
13. The same. Five times a week. First term.
14. The same. Three times a week. Second term.
15. The same. Three times a week. Third term.
16. The same. Four times a week. Third term. (Third year—Electrical Engineering.)
17. The same. Three times a week. Second term. (Fourth year—Civil Engineering.)

Courses 12, 13, 14, 15 and 16 in the Experimental Engineering Laboratory are arranged to meet the needs of the different students in obtaining experimental practice in the use and calibration of accurate measuring instruments; the testing of illuminating and lubricating oils for friction, endurance, and the like; the calibration and adjustment of gauges and springs; the testing of the materials of construction for strength and elasticity, in tension, compression, torsion, flexure, shear and impact; in the flow of liquids and gases; steam engine indicator practice; transmission and absorption dynamometers; testing of steam separators, injectors, steam pipe coverings; belt, rope and chain gearing, valve and eccentric setting; efficiency tests of simple and compound, condensing and non-condensing steam engines; the efficiency of steam boilers, and complete power-plants; the efficiency tests of gas and hot air engines, pulsometer steam and centrifugal pumps, hydraulic rams, impulse and turbine water wheels.

18. **Machine Design.** Recitations on Unwin's *Machine Design*, with lectures on American practice. Five times a week. First and Second terms.
19. **Machine Design.** Practical applications of the principles of machine design. (This course will not be given in 1896-97. See Course 8). Five times (ten hours' practice) a week. Third term.
20. **Hydraulic Machinery.** Recitations and lectures on pumping machinery. Twice a week. Third term.

21. **Thesis Work.** (See note, page 20 of Bulletin of College of Engineering). Five times a week. Third term.
22. **Timber and Masonry.** Lectures on the construction of foundations and structures in timber and masonry. Five times a week, the last three-fifths of Second term.
23. **Materials of Construction.** Lectures on the materials used in architecture and building construction. Five times a week. First term.

METALLURGY AND MINERALOGY

Professor N. W. Lord

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

52. **Mineralogy.** Lectures, with frequent quizzes on notes and with study of specimens in the collection of minerals. A short introductory course is given on crystallography, illustrated by wooden models. Text-book : Dana's *Manual of Mineralogy and Lithology*. Last nine weeks of Second semester.

COLLEGE OF ENGINEERING

2. **Mineralogy.** Lectures. Similar to Course 52 in College of Arts, Philosophy and Science, but more practical, and arranged so as to be preparatory to Determinative Mineralogy (Course 3). Three times a week. Third term.
3. **Determinative Mineralogy.** Laboratory course in practical determination of minerals by physical and chemical tests. Each student is furnished with a set of apparatus, and works under an instructor's inspection. Brush's *Determinative Mineralogy* is used as a manual. Three times a week. Third term.
4. **Metallurgy.** A course of lectures upon fuel and its uses, iron and steel, copper, lead, gold and silver, their properties, tests, ores and details of the modes of reduction. Frequent quizzes on notes and a careful study of references, standard works and journals. Five times a week. First and second terms.
5. **Metallurgical Laboratory.** Lectures and laboratory work. Laboratory practice in the analysis of iron and steel, iron ores, fuels and clay, by the most approved methods as practiced in the technical laboratories of metallurgical works. Course 5 must be preceded by Agricultural Chemistry, Courses 1, 8, 9; or by General Chemistry, Courses 7 and 12. Five laboratory periods a week. Three terms.
6. **Assaying.** Laboratory work. Practical work in the assaying of gold, silver and lead ores, by furnace methods. Oral instruction, with reference to standard books on assaying. Five laboratory periods a week. Second term.
7. **Metallurgical Construction.** Practice in the designing of furnaces and other metallurgical machinery, including detail drawings and estimates. Three times a week. First term. (Professors Lord and Ray).

8. **Ore Dressing.** Lectures. Instruction in the methods of concentrating and enriching ores by mechanical means. Lectures with reference to Rittinger's *Auf Bereitung*; Callon's *Course d'Exploration des Mines*; Kunhardt's *Ore Dressing*, and various papers in technical journals. Twice a week. First term.
9. **Mineral Chemistry.** Lectures and laboratory practice. Lectures upon fire-damp, mine explosions, explosives, boiler waters, poisonous gases, iron ores; iron and steel, their properties and modes of manufacture; coal and coke. Five hours a week. Third term.

MILITARY SCIENCE AND TACTICS

Lieutenant Martin

1. **Military Drill.** Five times a week. First and Third terms.
2. **Tactics.** Lectures and recitations. Twice a week. Second term.
3. **Art of War.** Lectures and recitations. Twice a week. Second term.

MINE ENGINEERING

Associate Professor Ray

1. **Mine Surveying.** Lectures and field practice. This is similar to Course 4, but more elementary. The same text is used. The students have more practice in the drawing-room. Five times a week. First term.
2. **Ventilation and Haulage.** Lectures illustrated by experiments and maps of mines and models when possible, tests by safety lamps and anemometers, and solution of air distribution in coal mines. Five times a week. Second term.
3. **Mine Operating.** A course of lectures and practical instruction in mine book-keeping and accounts, cost of working, etc., particularly adapted to Ohio coal mining. Five times a week. Third term.
4. **Mine Surveying.** Field practice in the use of instruments for surface and underground surveys. Full notes are taken, and maps and plans made in the drawing-room. Davies's *Surveying*, by Van Amringe, is used as a textbook. Five times a week. First term.
5. **Mine Engineering.** Lectures. Mine operating, mining machinery, ventilation, shaft-sinking, working out deposits, etc. Constant reference is required to the standard works and to the leading technical journals, with practice in designing mine plants, draughting and estimates. Five times a week. Through the year.
6. **Plans and Specifications.** Five times a week. Third term. [Professors Lord and Ray.]

PEDAGOGY

Professor Gordy

FIRST SEMESTER

51. **Elementary Educational Psychology.** Gordy's *Lessons in Psychology*; reports on studies of children. The aim of this entire course is to help those who take it to study their own minds and to prepare them to study the minds of their pupils. Five times a week.
53. **Advanced Educational Psychology.** Recitations, discussions, essays and lectures. Ladd's *Psychology*, descriptive and explanatory. The object of this course is to prepare the student for the independent study of the more difficult problems of psychology and pedagogy, such as apperception, concentration, correlation, etc. Twice a week.
55. **History of Education.** Recitations, discussions essays and lectures. Davidson's *Greek Education*. Twice a week.
57. **History of Education.** Recitations, discussions, essays and lectures. De Guimp's *Pestalozzi*, Bowen's *Fröbel*. Twice a week.
59. **The Herbartian Pedagogy.** Recitations, discussions, essays and lectures. Lang's *Apperception*, Rein's *Pedagogics*. Twice a week.
61. **Rosenkranz, Philosophy of Education.** Twice a week.

SECOND SEMESTER

52. **The Science and Art of Teaching.** Page's *Theory and Practice*, Quick's *Educational Reformers*. The aim of this course is to rationalize the work of the intending teacher, to give him clear ideas of the purpose of education, and of the means to be employed to achieve it. Five times a week.
54. **History of Education.** Laurie's *Universities*. (Special permission from the head of the department must be obtained before taking this course.) Twice a week.
56. **Laurie's Comenius.** (Special permission from the head of the department must be obtained before taking this course.) Twice a week.
58. **De Garmo's Herbart.** *Life of Horace Mann*, with readings from his lectures and reports. Twice a week.
60. **The Herbartian Pedagogy.** Recitations, discussions, essays and lectures. De Garmo's *Essentials of Method*, McMurry's *General Method*. (Open only to those who have taken Course 59, except by special permission.) Twice a week.
62. **Laurie's Institutes of Education.** Twice a week

PHARMACY

Professor Kauffman, Mr. Dye

6. **Pharmacy.** General pharmaceutical processes. Lectures three times a week. First term.

7. **Pharmacy.** United States Pharmacopeia official preparations. Lectures twice a week. Laboratory practice daily. Second term.
8. **Dispensatories.** Official preparations. Lectures twice a week. Laboratory practice daily. Third term.
9. **Pharmaceutical Chemistry.** Unofficial preparations. The National Formulary. Lectures twice a week. Laboratory practice daily. First term.
10. **Extemporaneous Chemistry.** Prescription practice. Lectures once a week. Laboratory practice three times a week. Second term.
11. **Lectures twice a week.** Dispensing practice daily. Prescription practice daily. Third term.
12. **Materia Medica.** Official drugs and classification. Three times a week. First term.
13. **Materia Medica.** Official and unofficial drugs. Three times a week. Second term.
14. **Materia Medica and Therapeutics.** Synthetic Products. Poisons and Antidotes. Three times a week. Third term.
15. **Pharmaceutical Assaying.** Three times a week. First term.
16. **Methods of Manufacture.** Three times a week. Second and Third terms.
17. **General Pharmacy.** Two lectures, three laboratory periods a week. First, Second and Third terms.
18. **Laboratory.** Special work for Veterinary students. Five times a week. Third term.

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

(Course Preparatory to Medicine)

FIRST SEMESTER

51. **Pharmacy.** General pharmaceutical processes. Lectures three times a week.

SECOND SEMESTER

52. Continuation of Course 51, with laboratory practice.

PHILOSOPHY

Professor Scott

FIRST SEMESTER

51. **Psychology.** Four times a week. (In 1896-97, three times a week).
53. **Psychology.** Three times a week. (Not offered in 1896-97).
55. **Ethics.** Three times a week.
57. **History of Ancient and Medieval Philosophy.** Elective after Courses 51 and 52. Three times a week.
59. **Advanced Work.** Subject to be determined. Twice a week.

SECOND SEMESTER

- 52. **Logic and Ethics.** Follows Course 51. Four times a week. (In 1896-97, three times a week).
- 54. **Logic.** Follows Course 53. Three times a week. (Not offered in 1896-97).
- 56. **History of Modern Philosophy.** Follows Course 55. Also elective after Courses 51 and 52. Three times a week.
- 60. **Advanced Work.** Follows Course 59. Twice a week.

PHYSICS

Professor Thomas, Assistant Professor Boyd, Mr. Kester

COLLEGES OF AGRICULTURE, ENGINEERING AND PHARMACY

- 1. **Elementary Physics.** An experimental treatment of the elements of Physics. Recitations and Lectures. Five times a week. First and Second terms.
- 2. **Mechanics and Heat, Electricity and Magnetism, Sound and Light** Lectures and Recitations. Three times a week. First, Second, and Third terms.
- 3. **Physics.** Extension of Course 2, with practice in solution of problems. Twice a week. First, Second, and Third terms.
- 4. **Electricity and Magnetism.** Lectures and Recitations. Three times a week. First term. (Third year, Electrical Engineering).
- 5. **Physical Laboratory.** Elementary manipulation. Length, mass, and time measurements. Work in density, elasticity, and in heat. Three times a week. Second and Third terms.
- 6. **Physical Laboratory.** Theory and practice of magnetic and electrical measurement, including the testing and standardizing of instruments; conductivity of conductors; insulations, capacity and resistance of insulated conductors and cables; temperature co-efficients; commercial measuring and testing instruments; strength and distribution of magnetic fields, magnetic moments, permeability; work in light including optical constants; spectroscopy; photometry of gas, electric and other lights. Four times a week first term. Five times a week, Second and Third terms. (Third year, Electrical Engineering).
- 7. **Physical Laboratory.** Three to five times a week. Through the year. Course 7 must be preceded by Course 2.
- 9. **Physical Laboratory.** A second year's work in Physical Laboratory. Three days per week, with five hours credit. Course 9 must be preceded by Course 7.

The work in the Physical Laboratory begins with exercises in length, mass, and time measurements, making use of scales, tapes and bars, micrometer screws, micrometer microscopes, the dividing eng'ne, the cathetometer, the balance, chronometers, chronoscopes, etc. This Course is intended to give the student facility in the use of instruments, and knowledge of the theory of their construction and adjustment.

The determination of various physical constants follows, with elementary exercises in heat, light, electricity and magnetism; after which the student takes up such advanced work as his taste and skill permit. The experimental work is accompanied by instruction in methods and in the discussion of results.

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

FIRST SEMESTER

- 51. **Mechanics, Heat, etc.** Three times a week. [Second year, Science Course.]
- 53. **Mechanics, Sound and Heat.** Lectures three times a week. [Elective in the first year of the Courses of Arts and Philosophy. Required in the First year of the Course Preparatory to the Study of Medicine.]
- 55. **Laboratory.** Three to five times a week.
- 57. **Laboratory.** Three to five times a week. Course 57 must be preceded by Course 55.

SECOND SEMESTER

- 52. **Electricity, Magnetism, etc.** Three times a week.
- 54. **Electricity, Magnetism, etc.** Three times a week. Follows Course 53.
- 56. **Laboratory.** Continuation of Course 55.
- 58. **Laboratory.** Continuation of Course 57.
- 60. **Laboratory.** Two hours a week. [First year of Course Preparatory to the Study of Medicine.]

PHYSIOLOGY

(See Anatomy and Physiology.)

POLITICAL ECONOMY

(See History and Political Science.)

POLITICAL SCIENCE

(See History and Political Science.)

RHETORIC AND ENGLISH LANGUAGE

RHETORIC

Professor Denney, Mr. Graves

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

FIRST SEMESTER

- 51. **Paragraph Writing.** Themes. Twice a week.
- 53. **Analysis of Prose.** Essays. Four times a week.
- 55. **Rapid Writing.** Preparation of articles for the Press. Once a week.
- 57. **Brief-Making and Argument.** Three times a week.
- 61. **Rhetorical Theory and Criticism.** Twice a week.

SECOND SEMESTER

- 52. **Practical Rhetoric.** Themes. Twice a week.
- 54. Continuation of Course 53. Four times a week.
- 56. Continuation of Course 55. Once a week.
- 58. **Studies in Exposition.** Types of the English Essay; book reviews; criticism. Must be preceded by Course 53. Three times a week.
- 60. **Short Stories.** Practice and Criticism. Elective for those who have credit for Course 53. Twice a week.
- 62. Continuation of Course 61.

(Courses 58 and 60 are given in alternate years. Course 60 is not offered in 1896-7, but may be expected in 1897-98)

COLLEGES OF AGRICULTURE, ENGINEERING AND PHARMACY

- 1. **Paragraph Writing and Practical Rhetoric.** Themes and Exercises. Twice a week, three terms.
- 3. **Advanced Rhetoric.** Twice a week, three terms.
- 4. **Advanced Composition.** Twice a week, three terms.

ENGLISH LANGUAGE

Professor Denney

FIRST SEMESTER

- 51. **Old English (Anglo Saxon).** Prose. Twice a week.
- 53. **Middle English.** Prose and Poetry. Twice a week.

SECOND SEMESTER

- 52. **Old English (Anglo Saxon) History of the Language.** Must be preceded by Course 51. Twice a week.
- 54. **Historical English Grammar.** Teachers' Course. Special permission necessary. Twice a week.

ROMANCE LANGUAGES

FRENCH

Professor Bowen, Mr. Bruce

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

FIRST SEMESTER

- 51. **Elementary French.** Grammar and Reader. Four times a week.
- 53. **Science Reading.** Open to those who have completed Courses 51 and 52, or who have credit for French as an entrance subject. Twice a week.

55. **Modern French Literature.** Open to those who have completed Courses 51 and 52, or who have received credit for French as an entrance subject. Four times a week.
57. **The Classic and Romantic Drama.** Open to those who have completed Courses 55 and 56. Three times a week.
59. **French Comedy.** *Moliere, Regnard, Beaumarchais.* Open to those who have completed Courses 55 and 56. (Not offered in 1896-97.) Three times a week.
61. **French Tragedy.** *Racine, Voltaire.* Lectures and readings, with assigned topics, reports and discussions. Must be preceded or accompanied by Course 57 or 59. Three times a week.
63. **French Literature before the Seventeenth Century.** Must be preceded or accompanied by Course 57 or 59. (Not offered in 1896-97.) Three times a week.

SECOND SEMESTER

52. **Modern Prose and Plays.** Continuation of Course 51. Four times a week.
54. **Science Reading.** Continuation of Course 53. Twice a week.
56. **Modern French Literature.** Continuation of Course 55. Four times a week.
58. **Advanced Prose Composition.** Open to those who have completed Courses 55 and 56. Three times a week.
62. **Chateaubriand and the Precursors of the Romantic Movement.** Lectures and readings, with assigned topics, reports and discussions. Three times a week.
64. **Contemporary French Writers.** Advanced work, as in Course 62. (Not offered in 1896-97.) Three times a week.

COLLEGES OF AGRICULTURE AND ENGINEERING

1. **Elementary French.** Grammar and Reader, modern prose and plays. Four times a week. First, Second and Third terms.
2. **Modern French Literature.** Four times a week. First, Second and Third terms.
3. **Science Reading** (College of Engineering). Twice a week. First, Second and Third terms.

ITALIAN

Professor Bowen

51. **Grammar and Readings.** Open to those who have completed Courses 51 and 52 (or an equivalent) in French. Twice a week. First Semester.
52. **Goldoni and Dante.** Continuation of Course 51. Twice a week. Second Semester.

SPANISH

Professor Bowen

51. **Grammar and Readings.** Open to those who have completed Courses 51 and 52 (or an equivalent) in French. (Given in alternate years; will not be offered in 1896-97.) Twice a week. First Semester.
52. **Calderon and Cervantes.** Continuation of Course 51. Twice a week. Second Semester.

SHOPWORK

(See Industrial Arts)

VETERINARY MEDICINE

Dr. White, Dr. Lavery, Dr. Ball

COLLEGES OF AGRICULTURE AND VETERINARY MEDICINE

11. **Osteology.** Lectures illustrated with skeletons and anatomical preparations. Dissections. Five times a week. First term.
12. **Myology.** Splanchnology and Angiology. Practical dissections and demonstrations on cadavers. Five times a week. Second term.
13. **Lectures, Illustrated in the Dissecting Room and on Anatomical Models.** Five times a week. Third term. Books of reference and recommended for study: Chauvau's *Comparative Anatomy* (Fleming's translation); Strangeways; McFadyean; Mueller and Leisering.
14. **Lectures and General Pathology.** Five times a week. First term.
15. **Special Pathology and Therapeutics of Sporadic Diseases.** Non-infectious Internal Diseases. Five times a week. Second term.
16. **Special Pathology and Therapeutics of Non-infectious Diseases of the Horse, Ox, and Dog.** Five times a week. Third term.
17. **Diseases of the Cow.** Three hours a week. Second term.
18. **Surgical Diseases and Operations.** Lectures, illustrated by practical demonstrations by drawings, on living animals in the clinic, and on cadavers in the dissecting room. Five times a week. First, Second and Third terms. Books recommended: As text-book, Mueller's *Operative Veterinary-Surgery* (Dollard's translation), Liantard's *Manual of Operative Veterinary-Surgery*, Beyer.
19. **Horse, Cattle, and Dog Clinic in the Veterinary Hospital.** Stationary and Ambulatory. The clinics are held at 10-11 A. M. (standard) and are free. Animals left in the Hospital are treated by the students of the junior and senior years, under the superintendence of the clinical professor.
20. **Special Pathology and Therapeutics of Infectious and Contagious Diseases.** Five times a week. First term.

21. **Special Pathology and Therapeutics of Infectious and Contagious Diseases.**
Three times a week. Second term. Texts: Froehner-Freidberger, Williams, Robertson.
22. **General Therapeutics.** Lectures. Texts: Ellenberger and Hoffmeister. Five times a week. Third term.
23. **Obstetrics.** Lectures and demonstrations. Anatomy and pelvic organs. Diseases before and after parturition. Obstetrical operations and manipulations. Books; Fleming's, Franck's *Obstetrics*. Three times a week. First, Second and Third terms.
24. **General Surgery.** Practical work, such as the more common operations which a regular practitioner would be called upon to perform. All this work is done by the student upon chloroformed live animals purchased for the purpose. Five times a week. First term.
25. **Anatomical Laboratory.** Practical work in Topographical Anatomy, as a review of Anatomy for senior students. Books: McFadyean, Schmaltz's Plates.
26. **Principles of Horse-shoeing.** Lectures and demonstrations. Includes all the diseases of the foot due to bad paring, shoeing, etc. Books: Leisering, Fleming.
27. **Meat Inspection.** Lectures on Inspection of Meat and Milk. Five times a week. Books: Walley, Ostertag.
28. **Anatomy.** Five times a week. First term.
29. **General Pathology.** Five times a week. Second term.
30. **Special Pathology and Therapeutics of Infections and Contagious Diseases.**
Five times a week. Third term.

ZOOLOGY AND ENTOMOLOGY

Professor Kellicott, Mr. Hine, Mr. Landacre

COLLEGE OF AGRICULTURE

1. **Invertebrate and Vertebrate.** Three times a week. Invertebrate, First and Second terms; Vertebrate, Third terms.
4. **Economic Entomology.** Five times a week. Third term. Two lectures and three laboratory periods. This course must be preceded by Course 1.
7. **Systematic and Practical Entomology.** Two lectures and one laboratory period a week. Third term.

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

FIRST SEMESTER

51. **Comparative Zoology.** Two lectures and one laboratory period a week.
53. **Comparative Anatomy of Vertebrates.** A laboratory course. Three laboratory periods a week.
55. **Comparative Anatomy of Vertebrates..** A laboratory course. Five laboratory periods a week.

57. **Zoology and Anatomy.** Advanced laboratory. Three laboratory periods a week.
59. **Zoology and Anatomy.** Advanced laboratory. Five times a week.
61. **Entomology.** An Advanced Practical Course. Five laboratory periods a week. This Course must be preceded by Courses 51 and 52, or 1, or 4, or 7 in the College of Agriculture.

SECOND SEMESTER

52. Continuation of Course 51. Lectures twice a week. One laboratory period.
54. Continuation of Course 53. Three laboratory periods a week.
56. Continuation of Course 55. Five laboratory periods a week.
58. Continuation of Course 57. Three laboratory periods a week.
60. Continuation of Course 59. Five laboratory periods a week.
62. Continuation of Course 61. Five laboratory periods a week.
64. **Comparative Zoology.** Three lectures and one laboratory period a week.

Courses 59, 60, 61, 62 must be preceded by Course 1 in the College of Agriculture, or Courses 51 and 52, or 53 and 54 or 64; or an equivalent taken elsewhere. The student may choose his work from any of the following:

- (a) The Exhaustive Anatomy histology of the Frog.
- (b) Comparative Anatomy of Invertebrates.
- (c) Invertebrate Embryology.
- (d) Vertebrate Embryology.
- (e) Comparative Neurology.
- (f) Cellular Biology.

A student whose major lies in Zoology may take a full year's work, selected from subjects named in the foregoing list.

ENROLLMENT FOR 1895-96

COLLEGE OF MINISTERS

ENROLLMENT FOR 1895-96

ENROLLMENT

1895=1896

ENROLLMENT FOR 1895-96

COLLEGE OF AGRICULTURE

RESIDENT GRADUATE STUDENTS—3

	Address
Bogue, Ernest E., B. Sc. Agr.	Norma, Oklahoma
(Ohio State University)	
Burkett, Charles William, B. Sc. Agr.	Thornville
(Ohio State University)	
Dunlap, Renick W., B. Sc. Agr.	Kingston
(Ohio State University)	

FOUR YEAR COURSES—38

	Course	Debit ¹ hours	Credit ¹ hours	Address
Abbott, Arthur Grant	Agr.	207	83	Medirta
Baer, Philip, Jr.	Agr.	205	155	Canal Dover
Baldwin, Linus R.	Agr.	204	49	Mt. Vernon
Ball, Fred C.	Agr.	204	58	Mt. Vernon
Beardsley, Ensign Newton	Agr.	204	14	Canfield
Birdsall, J. W.	H. & F.	197	97	Green Spring
Bone, John Hayes, B. Sc.	Agr.	204	59	McConnelsville
Britton, John C.	Agr.	207	106	Columbus
Clawson, Clarence	Agr.	204	88	Okena
Closson, Clayton Drew	Agr.	204	54	Galena
Crowner, Delbert Alonzo, B. Sc.	Agr.	203	201	Wellsville, N. Y.
*Cunningham, John F.	H. & F.	190	160	Urbana
*Dallas, John Thomas	Agr.	207	112	Hopedale
Dunham, Alonzo H.	Agr.	204	73	Santa Monica, Cal.
Dunlap, John Hyde.	Agr.	204	46	Williamsport
Fitts, Rolin.	Agr.	204	65	Elyria
Flickinger, George H.	Agr.	207	123	York
Foster, Fred May	Agr.	207	78	Kingston

* Preparatory work incomplete.

¹ These columns state the number of hours charged to each student (which must be completed) for a degree, and the number of hours for which he has credit on the books of the University at the close of the current year.

	Course	Debit hours	Credit hours	Address
Gilmore, William Henry	Agr.	207	80	Millersport
Henderson, Frank A.	Agr.	204	61	McConnelsville
Hill, Isaac Thorn Reynolds, B. Sc.	H. & F.	193	194	Berlin Heights
Hoff, Walter A.	Agr.	204	92	Mogadore
*Huff, Haines	Agr.	204	78	Leesburg
Imes, Marion	Agr.	204	66	Bashan
Johnston, Fred S.	Agr.	207	108	Ashtabula
*Mendenhall, Eugene Warren	H. & F.	196	74	Mt. Vernon
Miller, Carl James.	Agr.	207	100	Franklin
McCall, Arthur Gillet	Agr.	204	9	McGaw
McClelland, Chalmer Kirk	Agr.	207	106	Andover
Nettleton, Albert Warren	Agr.	207	94	Medina
Pfarr, Philip L., B. Sc.	Agr.	203	205	Minersville
Rarrick, Murray M., B. Sc.	Agr.	203	203	Thornville
Ruhlen, Frank, B. Sc.	Agr.	203	208	Plain City
Scott, Ernest.	Agr.	205	150	Columbus
Shellabarger, Marley R.	Agr.	205	136	Garland
*Titus, Clarence Hugh	Agr.	204	51	Avon Lake
Waid, Clarence William	H. & F.	196	92	Emery
Warden, Leonard C.	H. & F.	196	100	Avon
*Whiting, Charles Tryon	Agr.	207	105	Kirtland

SHORT COURSE—34

	Debit hours	Credit hours	Address
Aten, Frank Stewart	98	36	Nevada
Auld, Jay Mc.	98	17	Iberia
Barker, Asbury P.	98	25	New Lexington
Beard, Ralph H.	98	..	Bucyrus
Beem, Alda Morgan	98	..	Jersey
Beer, James Anderson	98	36	Ashtabula
Coddington, Alva Leroy	98	108	Conover
Darling, Everett Clyde	98	122	Nellie
Davis, Vernon Hayes	98	51	Byesville
Erf, Oscar.	98	12	
Fippin, E. O.	98	55	Galloway
Givens, David Albert	98	55	McGaw
Johnson, Lisle M.	98	15	Tiger
Kerr, Frank Hayes	98	43	Monclova
King, John Henry	98	12	Raccoon Island
Millar, Michael Seymour	98	34	South Bloomfield
Mooney, Charles Napoleon	98	42	Milan
Murphy, Farrah C.	98	114	Condit
McCullough, Clark W.	98	26	Steubenville

° Preparatory work incomplete.

	Debit hours	Credit hours	Address
McHenry, J. B.	98	5	
McNaghten, Stewart Alexander	98	38	Reynoldsburg
Persing, Mathias James	98	71	Clyde
Price, Homer Charles	98	181	Newark
Randolph, Frank Monroe	98	118	Somerset
Rodegev, Charles A.	98	..	Columbus
Rogers, John Wesley	98	12	Bloomingsburg
Rogers, Dwight E.	98	12	Belden
*Schroeder, Glen Thomas	98	26	Fredericktown
Steward, Charles B.	98	55	Marcy
Sweet, Smith E.	98	97	Mesopotamia
Uncapher, Charles	98	35	Marion
Whitehead, Henry H.	98	24	Jersey
Whitney, Charles	98	5	Black Lick
Winkler, Herbert G.	98	50	Hanging Rock

† COURSE IN DAIRYING—8

Breechbill, Burt Henry	Ayersville
Coe, William D.	Milford Center
Conkle, Harry	Buckeye City
Forsythe, John Barnett	Northwood
Kiddle, Francis William	West Williamsfield
Morrow, Clarence Gifford	Champaign, Ill.
Whitehead, Albert	Pataskala.
Wilson, J. Walker	New Concord

* Preparatory work incomplete.

† Twenty-eight students had the work in Dairying, nineteen being from the Courses in Agriculture.

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

RESIDENT GRADUATE STUDENTS—10

	Address
Ball, Emma Leanna, B. Sc.	Ironton
(Ohio State University)	
Calkins, George H., E. E.	Columbus
(Ohio State University)	
Coursault, Jesse H., B. A.	Columbus
(Ohio State University)	
Evans, William Lloyd, B. Sc.	Columbus
(Ohio State University)	
Fairchild, John Barton,	
Kersey, William Rufus, B. A.	Columbus
(Earlham College)	
Kester, Frederick Edward, E. E.	Eaton
(Ohio State University)	
Milne, Alexander, B. D.	Columbus
(Yale University)	
Ruppersburg, Emma A., B. Sc.	Columbus
(Ohio State University)	
Swartzel, Earl Glen, B. Sc.	Columbus
(Ohio State University)	

FOUR YEAR COURSES—281

	Course	Debit Term hours	Debit Sem. hours	Credit Term hours	Address
Ackley, Alice C.		47	94	14	Moscow
*Adamson, Ralph Emerson.	Ph. E.	48	86	36	Dayton
Addison, Clarence Maywood, B. Ph.		189	..	191	Newton
Albery, Edith.	M. L. Ph.	47	94	3	Columbus
Allen, Lucy R.	Arts	145	30	145	Columbus
*Armentrout, Lyman Vance	E. Ph.	48	86	34	Mt. Vernon
Armstrong, Edna.	E. Ph.	144	30	137	Columbus
Atkinson, Cephas.	Arts	98	60	72	Plain City
*Axline, Tella Maud.	E. Ph.	99	60	79	Columbus
*Bachtell, Estella.	E. Ph.	99	60	66	Columbus
Baldwin, Leah A.	Arts	47	94	16	Columbus
Baldwin, Zoa Belle, B. A.		188	..	193	Columbus
*Ball, George G.	Arts	100	60	83	Columbus
Bancroft, Gay.	Arts	100	60	100	Columbus

*Preparatory work incomplet

	Course	Debit Term hours	Debit Sem. hours	Credit Term hours	Address
Barlow, Helen M.	L. Ph.	100	60	96	Columbus
Barnaby, Josephine, B. Ph.		188	..	192	Columbus
Beardsley, Orsamus Drake	E. Ph.	104	57	104	Garrettsville
Beebe, Stacey M.	E. Ph.	48	86	..	Columbus
Bell, Florence	E. Ph.	48	86	38	Columbus
Billman, Charles Edward	E. Ph.	48	86	2	Shelbyville, Ind.
Blakiston, Anna	L. Ph.	163	18	163	Columbus
*Bock, Harry W.	L. Ph.	100	60	68	Canton
*Bodman, Mary Elizabeth	L. Ph.	100	60	98	Bement, Ill.
Boesel, Frank Tilden, B. Ph.		188	..	191	New Bremen
Bohl, Fannie I.	E. Ph.	48	86	..	Columbus
*Bolin, Stewart Robinson	Arts	47	94	4	Circleville
Bond, Charles Grosvenor	E. Ph.	99	60	70	Columbus
Brand, Harry Frank, B. Ph.		189	..	190	Worthington
*Brandt, James Herbert	E. Ph.	48	86	33	Greencastle
Bruggeman, C. A.	Arts	47	94	30	Hilliards
Bryant, Florence Louise	E. Ph.	48	86	6	Columbus
*Burkett, Dora Van Buren	E. Ph.	179	7	179	Thornville
*Burr, Harriet	Arts	182	6	182	Worthington
Butler, Delano	E. Ph.	48	86	..	Adelphi
Canfield, Leander Randall, B. Ph.		189	..	189	Chardon
Carr, James Gray	Arts	172	12	172	Coshocton
*Clark, Margaret Brown	E. Ph.	48	86	37	Columbus
*Clum, Harry Ernest	E. Ph.	50	85	50	Thornville
*Cockins, Rutherford Hayes	E. Ph.	99	60	93	Columbus
Cole, Marietta C.	L. Ph.	160	20	160	Columbus
*Cole, Richard Elisha	E. Ph.	48	86	29	Columbus
Conrad, Robert	Science	51	95	51	New Vienna
Connell, Laura Jewell, B. Ph.		191	..	191	Columbus
Converse, Curtis Leigh	Arts	49	94	49	Plain City
Converse, Walter	Arts	49	94	48	Plain City
Cook, Laura	Arts	47	94	..	Columbus
Corner, Daisy	L. Ph.	49	94	49	Columbus
Corner, Florence	L. Ph.	158	22	158	Columbus
Cotes, Albert E.	Science	185	5	185	Springfield
Coursault, Ida M.	E. Ph.	54	82	54	Columbus
*Craig, Frederick Gregg	Science	102	62	79	Cambridge
Cratty, John Mason	Science	182	7	182	Bellaire
Crowner, Mrs. D. A.	E. Ph.	48	86	5	Wellsville, N. Y.
Daehler, Edward Jacob	E. Ph.	48	86	48	Portsmouth
Dakin, William Clarence	E. Ph.	48	86	..	Sabina
*Davenport, Adrian	Arts	143	30	129	Columbus
Davies, Jennie Centennial	L. Ph.	163	18	163	Columbus
Derby, Florence Harlow, B. Ph.		189	..	199	Columbus
*Doan, Frank Carleton	Science	51	95	39	Nelsonville

*Preparatory work incomplete.

	Course	Debit Term hours	Debit Sem. hours	Credit Term hours	Address
Dodd, Stanley Anderson	Arts	47	94	41	Zanesville
*Dodge, Karl Bertram	Arts	55	90	55	Dodgeville
*Dresback, Melvin	Science	147	30	133	Kingston
Duvel, Joseph W. T.	Science	161	21	161	Wapakoneta
Eagleson, Grace	L. Ph.	176	8	176	Columbus
Easton, Ernest Doane	Science	59	90	59	Springboro
Edwards, Cora Willora	Science	51	95	..	Long Run
Edwards, Mary Winifred	Arts	162	18	162	Columbus
Farmer, Maud G	E. Ph.	48	86	9	Columbus
Fay, Monna	L. Ph.	148	28	148	Ostrander
Feibel, Michael	E. Ph.	48	86	37	Hillsboro
Feiel, Ida Louise	L. Ph.	100	60	99	Columbus
Ferree, James Irvin	Science	51	95	48	Columbus
Fischer, Walter	Science	172	14	172	Columbus
Fisher, Martha Beal	E. Ph.	48	86	29	Columbus
Fleck, Helena	M. L. Ph.	146	30	111	Columbus
Flynn, Maud, B. Sc.	..	192	..	200	Columbus
Flynn, Oscar Rogers, B. Sc.	..	192	..	214	Columbus
Ford, Ruth L.	Arts	109	53	109	Ashtabula
Ford, Stanley H.	M. L. Ph.	146	30	92	Columbus
Forgy, Ralph Morris, B. Ph.	..	189	..	194	Troy
Fox, Frederick Hugh, B. Ph.	..	189	..	191	McConnelsville
Fraker, Georgietta	E. Ph.	54	82	54	Columbus
Frichle, Oliver Parker, B. Sc.	..	192	..	216	Mt. Hope
Fullmer, Edward Lawrence	Science	124	48	124	Defiance
Game, Reed Haskel, B. Ph.	..	189	..	201	C. Winchester
*Gardner, Frank William	Arts	98	60	86	London
*Gardner, Howard	Arts	98	60	67	London
Garver, William Frederick	E. Ph.	48	86	..	Pictoria
Genheimer, Eli Thomas, B. Ph.	..	189	..	191	Wheelersburg
Geren, Nellie Onata	E. Ph.	48	86	40	Columbus
*Goddard, Edwin Newell	E. Ph.	49	94	49	Ashtabula
Gordon, Adelaide, B. Ph.	..	188	..	193	Columbus
*Gray, Genevieve	E. Ph.	99	60	98	Columbus
Grimm, Anna Mary	M. L. Ph.	47	94	..	Columbus
*Grimm, Arthur Adin Hibbs	Science	51	95	45	Columbus
Groff, Warren Noble, B. A.	..	188	..	192	Findlay
*Gruen, Frank William	E. Ph.	57	80	57	Columbus
Guerin, Martha, B. Ph.	..	189	..	193	Columbus
Gugle, Marie	Arts	145	30	140	Columbus
*Guittard, Claude B.	M. L. Ph.	47	94	30	New Bedford
Gutzu, Victor	Science	51	95	..	Roumania
Haigler, Charles Edmund	Science	105	60	105	Jeffersonville
Hammond, Bessie Bell	L. Ph.	145	30	138	Columbus
Hammond, Rose, B. Ph.	..	189	..	193	Columbus
*Harrop, Herbert B.	Science	147	30	116	Columbus

* Preparatory work incomplete.

	Course	Debit Term hours	Debit Sem. hours	Credit Term hours	Address
*Hartsough William Howard	E. Ph.	99	60	98	Columbus
Harvey, Arlington, C., B. Ph.		191	..	222	Mt. Perry
Harvey, Emory Wayland, B. Ph.		189	..	189	Mt. Perry
Harvey, Florence D	M. L. Ph.	99	72	103	Mt. Perry
Hastings, Edwin George	Science	102	62	102	Austinburg
Hawley, Charles S.	Science	51	95	19	Pataskala
*Hazelton, Birdie	E. Ph.	99	60	99	N. Straitsville.
Henderson, Grace Lee	E. Ph.	59	86	59	Columbus
Hermes, Edith Selma	M. L. Ph.	100	72	99	Portsmouth
Hermes, Albert Edward	Science	51	95	45	Portsmouth
Herritt, Mary E	E. Ph.	48	86	..	Columbus
Herrman, Bessie	E. Ph.	48	86	42	Columbus
High, Odessa, B. A		188	..	190	West Jefferson
Hoffman, Arthur Sullivan	Arts	143	30	137	Columbus
Hogue, Fred Rolland	Arts	48	94	39	Ashtabula
Houseman, Ruth	L. Ph.	145	30	145	Columbus
Howard, Anna Faye	Arts	49	94	26	Columbus
Howard, Fanny Fern, B. A.		188	..	195	Columbus
Howard, Homer Curtis	Science	147	30	120	Columbus
Hubbard, Sterling W.	E. Ph.	48	86	17	Columbus
Huffman, Lillian	L. Ph.	49	94	49	Columbus
*Huggins, Burch Deleplaine	L. Ph.	47	94	42	Hillsboro
Hunt, Nettie Alice	E. Ph.	48	86	26	Columbus
Ingram, Gwendolin	M. L. Ph	98	72	66	Columbus
Ingram, Imogene	L. Ph.	154	24	154	Columbus
James, Florence May, B. A.		188	..	198	Columbus
Jeffrey, James Fred	Science	51	95	45	Columbus
Jones, Ada Beatrice	L. Ph.	47	94	31	Columbus
Jones, Anna E.	E. Ph.	99	60	82	Columbus
Jones, Joshua Henry	Arts	55	90	55	Columbus
Keating, David T.	L. Ph.	49	94	49	Columbus
Kellerman, Ivy	Arts	99	60	99	Columbus
Kellicott, Gertrude	E. Ph.	144	30	130	Columbus
Kellicott, William Erskine	L. Ph.	100	60	100	Columbus
Kellison, Edward LaFayette	E. Ph.	144	30	139	Quincy
Kelly, Austa Beryl	E. Ph.	48	86	33	Mt. Gilead
Kelton, Ella Watson	Arts	47	94	30	Columbus
*Kiger, William	Science	55	95	7	Prairie Depot
King, Robert James	Arts	47	64	39	Zanesville
Kirby, Harriet R.	Arts	47	94	12	Columbus
Knight, Caroline Estell	E. Ph.	48	86	39	Columbus
Krumm, Charles S. M., B. Ph.		188	..	190	Columbus
Krumm, Herbert Zettler	L. Ph.	100	60	65	Columbus
Kuhn, Harry Waldo	Science	149	29	149	Etna
Lane, Quinton R.	E. Ph.	99	60	87	C. Winchester
Landahl, Eugene Everett	Science	51	95	24	Plain City

* Preparatory work incomplete.

	Course	Debit Term hours	Debit Sem. hours	Credit Term hours	Address
*Latimer, Thomas Erwin.....	L. Ph.	47	94	5	Hilliards
*Lehman, John Wesley.....	E. Ph.	48	86	43	C. Winchester
Lentz, Alice Belle.....	L. Ph.	162	19	162	Loydsville
*Levison, Harry.....	Arts	49	94	44	Leipsic
Linville, Clarence Philander.....	Science	53	94	53	Urbana
Lisle, Dallas Gypsi.....	L. Ph.	49	94	44	Columbus
Lisle, Leslie Mac.....	L. Ph.	58	88	58	Columbus
Lisle, Mabel E.....	E. Ph.	155	22	155	Columbus
List, Erma A.....	L. Ph.	47	94	42	Columbus
Luce, Edna Jesse.....	E. Ph.	48	86	36	Columbus
Lydenberg, Walter B.....	Arts	103	57	103	Dayton
Lynas, Caroline.....	Arts	73	78	73	Columbus
Lynas, Charles Edmund.....	Arts	101	60	101	Columbus
Madden, Arthur W.....	Arts	143	30	108	Columbus
Mann, Wilbur Edwin.....	L. Ph.	47	94	47	Morrisville
Martell, Leonard Roland.....	Arts	100	60	100	Columbus
Mays, John Wesley.....	E. Ph.	144	30	125	South Point
Meek, Edward Duncan, B. A.....		188	..	194	Glencoe
Metters, Allen, B. A.....		188	..	188	Columbus
Mickey, Blanche.....	L. Ph.	98	60	95	Columbus
Mills, Helen.....	L. Ph.	48	94	45	Gallipolis
Montgomery, Howard, B. Ph.....		191	..	193	Martins Ferry
Moon, Victor Clarence.....	L. Ph.	47	94	39	Farmers Station
*Moore, Clarence L. E.....	Science	73	81	73	Wash'gton C. H.
*Moore, Howard Benford.....	Arts	100	60	78	Circleville
Moore, Henry Curtis.....	Science	169	16	169	Wash'gton C. H.
Morgan, Helena.....	M. L. Ph.	47	94	8	Ind'polis, Ind.
Morrey, Anna Eliza, B. A.....		188	..	191	Chester Hill
Moss, Blanche.....	Arts	99	60	92	Columbus
*Mundhenk, Ruth.....	Science	62	88	62	Dayton
Mundhenk, Fred, B. Ph.....		191	..	193	Columbus
Munshower, Mabel.....	E. Ph.	48	86	24	Columbus
Munson, Theodore Schwabe.....	Science	103	62	103	Zanesville
*Murdock, George Washington.....	E. Ph.	48	86	33	Carroll
McCarter, Flora.....	Arts	145	30	145	Columbus
McClure, Robert Edward.....	Arts	47	94	47	Dayton
McGregor, R. W. E.....	E. Ph.	48	86	..	Zanesville
McLaughlin, Annis.....	L. Ph.	150	27	150	Columbus
*Nevin, Robert Reasoner.....	E. Ph.	48	86	39	Dayton
Nichol, Gertrude Belle.....	E. Ph.	99	60	73	Columbus
*Nobles, Jeannette J.....	E. Ph.	99	60	89	Middleport
Nutt, Arthur Chase.....	E. Ph.	166	19	166	Worcester, Mass
O'Kane, Walter Collins.....	Arts	151	26	151	Columbus
*Osburn, Raymond Carroll.....	Science	71	82	71	Columbus
Parker, John Bernard.....	Arts	98	60	80	Danville

	Course	Debit Term hours	Debit Sem. hours	Credit Term hours	Address
Pemberton, Harvey Cannon.....	E. Ph.	99	60	82	Locust Grove
Plimmer, Gertrude Alice, B. Ph.		188	..	196	Columbus
*Porter, Albert Adner		49	94	48	McConnelsville
Porter, Mary Baxter.....	E. Ph.	147	28	147	Columbus
Powell, Helen Rich.....	E. Ph.	54	90	54	Columbus
Powell, Maria Elizabeth	E. Ph.	48	86	43	Columbus
Prall, Anna Dickson.....	Arts	98	60	92	Columbus
*Pryor, Charles Foster.....	E. Ph.	99	60	58	Hendrysburg
Pumphrey, J. H	Science	61	89	61	Clayton
Putnam, Abby Slocomb.....	M. L. Ph.	150	28	150	Columbus
Ramsey, Russell Kenney	Arts	100	60	85	Columbus
Rasor, Samuel Eugene.....	Science	51	95	51	Clayton
Raymond, Maud.....	E. Ph.	48	86	44	Columbus
Reeves, Claud J	Arts	49	94	49	Columbus
Reeves, Maud Estelle	Science	51	95	51	Columbus
Rice, Mabel E.....	Arts	100	60	93	Columbus
Rice, Mary Washington.....	Arts	47	94	48	Columbus
Rice, Susan Esther	Arts	47	94	47	Columbus
Richardson, William Waddle.....	L. Ph.	49	94	49	Columbus
Richey, Luzerne A	E. Ph.	148	28	148	Boulder, Col.
*Riddle, Lumina Cotton	Science	151	28	151	Columbus
*Rife, Fannie B.....	Arts	57	88	57	Columbus
*Roach, Andrew	L. Ph.	60	86	60	Chillicothe
Robbins, George A	E. Ph.	48	86	49	Columbus
*Rockwell, Mary Fanny	E. Ph.	99	60	75	Columbus
Rogers, Andrews, B. Ph.....		191	..	191	Columbus
Rogers, Frank P.....	Arts	66	82	66	Columbus
Russell, Ralston, B. Ph.....		188	..	190	Columbus
Samuel, Florence Louise.....	E. Ph.	48	86	18	Columbus
Schille, Ida.....	Arts	100	60	95	Columbus
*Schwier, Minona	Arts	145	30	145	Columbus
Scott, Mary Bole, B. A.....		188	..	193	Columbus
Sellenings, Albert E., B. Ph.....		191	..	194	Chillicothe
Shield, Wallace Bates.....	Arts	100	60	89	Kansas City, Mo.
*Shuck, Carey Lucas.....	E. Ph.	99	60	82	Vanlue
Shurtz, Olive.....	E. Ph.	99	60	93	Columbus
Sim, Keturah Odella.....	E. Ph.	48	86	4	Columbus
Slaughter, Minnie Magdalen	Arts	98	60	95	Columbus
*Smith, Alice May.....	E. Ph.	144	30	141	Columbus
Smythe, M. B	E. Ph.	48	86	8	Columbus
*Snow, Walter Austin	E. Ph.	168	14	168	Austinburg
Southard, Thomas Campbell, B. A.....		188	..	188	Columbus
Spencer, Ralph Oliver	Arts	49	94	49	Columbus
Sprague, Charles Franklin, B. A		188	..	188	Wapakoneta
*Steeb, Carl E.....	E. Ph.	48	86	48	Medina

*Preparatory work incomplete.

	Course	Debit Term hours	Debit Sem. hours	Credit Term hours	Address
Sternberger Larmar	E. Ph.	48	86	48	Jackson
Stevens, Frank M.	E. Ph.	48	86	6	Elyria
Stimson, Charles Leslie	Arts	49	94	49	Columbus
Stoddard Charles William	Arts	47	94	..	Columbus
Sullivan, Clarence J.	E. Ph.	48	86	..	Columbus
*Sutherland, Margaret	L. Ph.	143	30	123	Columbus
*Sylvester, John E., Jr	E. Ph.	99	60	87	McArthur
Talbot, Herbert S	E. Ph.	48	86	48	Columbus
Taylor, Lowell Lake	E. Ph.	48	86	5	Wolcott, Ind.
Taylor, Pearl Valeria	Arts	143	30	131	Columbus
Travis, Fred L.	Arts	100	60	85	Pana, Ill.
Turner, Frederick Lewis	Arts	156	22	156	Columbus
Twiss, Marion Evans	Arts	145	30	145	Columbus
Uncles, Margaret Anna	Arts	143	30	134	Columbus
Underwood, Ella	Arts	99	60	85	Columbus
Vance, Mary Grace	Arts	118	48	118	Columbus
*Van Ness, Nellie Rebecca	E. Ph.	49	86	49	Mechanicsburg
Vinson, Albert Earl	Science	113	55	113	Dayton
Vornholt, Julius Franklin	Arts	98	60	100	New Bremen
Walker, Frederick William, B. A. ....	..	188	..	188	Columbus
Walsh, Mary Helen, B. Ph. ....	..	188	..	190	Columbus
*Walsh, Nettie	Arts	145	30	145	Columbus
Waltimire, George C.	E. Ph.	144	30	110	Deshler
Warden, Hosea Gilford	E. Ph.	48	86	36	Columbus
Watson, Benson Gruber, B. Ph. ....	..	189	..	189	New Salem
Watson, Edward Thompson	Science	169	16	169	Good Hope
Weddell, Joseph Benjamin	E. Ph.	48	86	..	W. Newton, Pa.
Westervelt, Alanson	Arts	47	94	..	Columbus
*Whittaker, Mabel G	L. Ph.	47	94	12	Columbus
Wiggins, Sherman Tecumseh	M. L. Ph.	151	27	151	Columbus
Wilcox, Edwin Mead, B. Sc. ....	..	192	..	192	Columbus
*Wildermuth, Andrew LeRoy	E. Ph.	99	60	62	Columbus
Williams, Anna Ernestine	E. Ph.	48	86	48	Jackson
Williams, Lloyd Thomas, B. Ph. ....	..	189	..	206	Jackson
*Williams, Mary E	M. L. Ph.	69	81	69	Columbus
Williamson, Edward Bruce	Science	105	60	105	Bluffton
*Woods, Charles	Arts	98	60	76	Chillicothe
Workman, Charles, B. A. ....	..	188	..	188	Columbus
Wright, Burr Roscoe	E. Ph.	144	30	112	Peebles
Zeller, Marie A	M. L. Ph.	47	94	6	Columbus

COURSE PREPARATORY TO LAW AND TO JOURNALISM—3

	Debit Term hours	Debit Sem. hours	Credit Term hours	Address
Jones, Fred E.	45	36	..	Jackson
Marshall, Robert E.	45	35	29	Sidney
West, Richard Sedgwick	45	35	27	Rix's Mills

* Preparatory work incomplete.

COURSE PREPARATORY TO THE STUDY OF MEDICINE—12

	Debit Term hours	Debit Sem. hours	Credit Term hours	Address
Baldwin, Hugh Allen	52	71	49	Columbus
*Clemson, Frank Raymond	52	71	39	Thornville
*Crebelius, Edward W.	52	71	15	Milan
Easton, John Crockett.	105	38	95	Springboro
*Ewing, William Aaron.	52	71	45	Greenville
*Halderman, Henri Gorath	52	71	37	Portsmouth
Hill, Walter Centennial.	57	68	57	Berlin Heights
Lindsay, John Fergus.	52	71	42	Salineville
*Margruder, Charles Searl	52	71	22	Columbus
McDonald, Daniel Moore	52	71	21	Wellsvi le
Silver, Harry	52	71	49	Hamilton
*Williams, Horton	52	71	39	Worthington

COLLEGE OF ENGINEERING

FOUR YEAR COURSES—286

	Course	Debit hours	Credit hours	Address
Abbott, John Vincent	E. E.	220	72	Waterbury, Conn.
Aldrich, Edgar S.	E. E.	222	161	Clintonville
Alexander, Charles Pearl, E. E.		222	226	Letart Falls
Algeo, Thomas B.	E. E.	216	33	Pataskala
Allen, Harvey	M. E.	221	104	Yellow Springs
Alsdorf, Percy Reed, E. M.		218	218	Utica
Anderson, Harry E.	M. E.	219	7	Cambridge
Arnold, Edwin Ebert.	E. E.	220	98	Zanesville
Aughenbaugh, Clinton Cornelius.	M. E.	219	17	Beaver, Pa.
Auld, James A.	E. E.	222	158	Columbus
Bahin, Michael John	E. E.	220	53	Springfield
Balentine, Arthur T.	C. E.	215	64	Springfield
Barcus, Minor	E. E.	222	164	Columbus
Barlow, Moses Henry	C. E.	207	53	Columbus
Barnaby, Charles L.	C. E.	215	104	Columbus
Barry, James W.	C. E.	207	71	Ashland
Barrows, Harry H.	C. E.	215	98	Columbus
Bartholomew, Clyde Stanley, C. E.		215	215	Newark
Beecher, Lyman	C. E.	220	44	Hillsboro
Bell, Perry E.	E. E.	216		
Bettle, Webb	C. E.	207	51	New Richmond
Biebel, Herman M., E. E.		222	237	Columbus

* Preparatory work incomplete.

	Course	Debit hours	Credit hours	Address
Bishoff, John Wallace.....	E. M.	203	53	Elk Garden, W. Va.
Blackburn, Frank H., E. E.....		222	222	New Vienna
Bloss, Miller.....	E. E.	216	44	Urbana
Borden, Gideon S.....	C. E.	215	156	Sugar Valley
Bostwick, Harley Oscar.....	C. E.	207	25	Mt. Sterling
*Bowden, Harry William.....	C. E.	207	53	Minerva
*Bower, Jerome G.....	M. E.	222	161	Waynesburg
*Braun, John William.....	C. E.	215	96	Columbus
Briggs, Delamar Clay.....	E. E.	216	31	Columbus
Briggs, Joseph Chester.....	E. E.	216	11	Columbus
*Brink, May.....	C. E.	215	162	Columbus
*Brown, Harold Warner.....	E. E.	222	138	Oberlin
Bruning, Henry Diedrick, C. E.....		215	215	Columbus
Bryant, Berney C.....	E. E.	216	1	Cambridge
Bryant, Philip Earnest.....	E. E.	220	76	S. Haven, Mich.
Buchenberg, Alvin Earnest.....	E. E.	216	41	Holgate
Buckman, Arthur Lesley.....	E. E.	222	178	Norwalk
Burns Robert M.....	C. E.	215	177	Canton
Butcher, Frederick Eric.....	E. E.	216	31	Buckland
Bygate, Harry Goldsmith.....	E. E.	216	52	Steubenville
Carr, Hugh Stanley, E. E.....		222	222	Yellow Springs
Catlin, Homer C., C. E.....		215	216	Canton
Chandler, Henry Stanley.....	E. E.	222	166	Bellaire
Chandler, Homer Payne.....	E. E.	216	49	Columbus
Chappell, Walter Evans.....	E. E.	220	101	Barnesville
Cilley, Raymond, M. E.....		221	221	Cincinnati
Clark, Clarence Julian.....	C. E.	207	60	Wilberforce
Claypoole, Albert.....	M. E.	221	110	Columbus
*Clemens, Alexander Ralph.....	E. E.	207	18	Lakeside
Cline, Walter D.....	C. E.	207	38	Dayton
Coddington, Edwin F., C. E.....		215	225	Conover
*Colgan, Frank J.....	E. E.	220	38	Columbus
*Connolley, Fred Davis.....	E. E.	220	71	Columbus
Conway, Hugh Lawrence, C. E.....		215	215	Bellefontaine
Cool, Henry Rose.....	M. E.	219	51	Urbana
Cope, Arthur Nathan.....	E. E.	222	169	Kingston, Mo.
*Copeland, Martin B.....	M. E.	219	16	Columbus
Craig, Brown Thompson.....	C. E.	207	19	Shreve
Cureton, Ed. H.....	E. M.	203	33	
Curtis, Leigh Goodrich.....	C. E.	207	51	Hamilton
Damon, Owen H.....	C. E.	207	40	Hinckley
Damron, Carson Wiley.....	M. E.	222	178	Gallipolis
David, Ernest Edgar.....	E. E.	222	46	Savannah, Ga.
Davis, Oscar A.....	E. E.	222	166	Alliance
Deahl, Walter Smith, C. E.....		215	215	Columbus
Deeds, Wilbur Clyde.....	E. M.	203	36	Cuyahoga

*Preparatory work incomplete.

	Course	Debit hours	Credit hours	Address
Deeter, Jacob Edgar	C. E.	207	32	Boyd
DeLoffre, Andre, E. E.		222	224	Columbus
DeWitt, Claude Bennett	E. E.	216	39	Sandusky
Diemer, Hugo, E. E.		222	222	Cincinnati
Donham, Albert	M. E.	219	53	Lindale
Donham, Maurice, M. E.		221	221	Lindale
Drummond, William George	M. E.	219	69	Cleveland
*Duke, Carl Lewis	E. E.	216	54	Ridgeville
Dunnick, Edward	C. E.	215	167	Columbus
Elliott, Homer Philander	E. E.	216	36	Columbus
*Enos, Earl E.	C. E.	215	100	Defiance
Erdman, William	M. E.	219	46	Chillicothe
Estabrook, David Reed	E. E.	216	42	Warren
Estep, Frank Leslie	E. E.	220	113	Jeffersonville
Evans, Roy Newell	E. E.	216	52	Greenville
Eves, Edward H.	Ind. Arts	208	43	Bridgeport
Eysenbach, Ernest, E. M.		218	236	Delphos
Fergus, Guy Carleton	E. E.	220	122	Tadmore
Ferree, Clarence Eugene	C. E.	215	102	Columbus
Firestone, C. E.	E. E.	216		Columbus
Fish, Fred A.	E. E.	220	110	Milan
Flynn, Benjamin Harrison	C. E.	215	109	Columbus
Frankenberg, John Theodore	E. E.	216	58	Columbus
Fraser, Charles Alexander	E. E.	220	107	Wellsville
Frayar, Lee A. M. E.		221	221	Greenwich
Freeman, George Doane	E. E.	220	100	Columbus
Freeman, Stanton Sholes	E. M.	212	115	Columbus
*French, Edward Houston	E. M.	221	70	Columbus
Frost, George Winfield	M. E.	219	54	Columbus
*Gallen, William F.	M. E.	222	164	Columbus
Galleher, Henry Hedge	E. E.	222	140	Delaware
*Jamper, Herman	E. E.	207	72	Columbus
Gansen, Edwin R.	E. E.	220	65	Columbus
Garber, John Murray	C. E.	215	163	Bellville
*Gee, Eugene Charles	E. E.	222	164	Wheeling, W. Va.
Geren, Harry Ogden	E. E.	220	84	Columbus
Given, James Byron, E. E.		222	230	New Concord
Goodell, Frank Herbert	E. M.	212	64	Columbus
Graham, Emery Eugene	E. E.	220	111	Richwood
Grate, Charles A.	E. E.	220	106	Yale
*Green, Joseph Walter	E. E.	216	52	Dayton
Griffin, Mark Harris	E. E.	222	168	Toledo
Groves, John Wesley	C. E.	215	109	Batavia
Gyger, Elliott L.	E. E.	222	134	Alliance
Haas, Frank, C. E., E. M.		218	218	Dayton
Hale, Frederick James	M. E.	221	117	Mogadore

*Preparatory work incomplete.

	Course	Debit hours	Credit hours	Address
Haly, William Stokes	C. E.	207	50	Napoleon
Hardy, Paul	E. E.	216	2	Columbus
Harshbarger, Elmer	E. E.	216	14	Jackson
*Hartman, John Metz	E. E.	216	7	Lawrenceville
Hartwick, Louis Martin	M. E.	222	156	Marietta
Harward, Alvin Devins	E. E.	220	54	Gahanna
Hawkins, Harry Clyde	E. E.	210	107	Lima
Hayes, Robert Lee	E. E.	220	97	Columbus
Hayman, Will Clayton	E. E.	216	32	Holgate
Hebble, Roy, E. E.		222	222	Xenia
Henderson, Adelbert A.	C. E.	215	59	Olentangy
Henderson, Herbert B.	E. E.	216	16	Laceyville
Henry, Carlton	E. E.	16	54	London
Henretta, Charles M., E. M.		218	218	Moundsv'e, W. Va.
Hertner, John Henry	E. E.	216	54	Dayton
Hewitt, Strafford Reeves	E. E.	220	160	Columbus
*Heywood, Harry Nelson	E. E.	216	34	Wapakoneta
High, Carroll William	C. E.	215	81	Columbus
Hildt, John Edward	C. E.	215	107	Canal Dover
Hipple, John Merton	E. E.	220	110	Jefferson
Hirsch, Gustav	E. E.	220	158	Columbus
Hopkins, Roy James	E. E.	216	54	Mechanicsburg
Howell, Carl Eugene	C. E.	207	51	Columbus
Howells, Thomas J.	E. M.	215	148	Bridgeport
*Huddleson, Frank	M. E.	219	32	Columbus
*Humphreys, Samuel Milton	E. E.	220	74	Columbus
Huntington, Arthur	M. E.	221	77	South Charleston
Hyle, Charles A., E. E.		222	236	Columbus
Irwin, Chadwick	M. E.	222	155	Columbus
Jeffrey, John Ralston	C. E.	207	2	Huron
Jeffrey, Robert Hutchins.	E. E.	222		Columbus
Jennings, Levi	E. E.	222	168	Eaton
Johnson, Charles B.	C. E.	207	46	Caldwell
Johnson, Charles W., E. E.		222	222	Columbus
Johnson, Earl S.	E. E.	207	48	Plants
*Jones, Arthur James	E. E.	220	113	Fitz Henry, Pa.
Judd, Horace	M. E.	222	197	South Hadley Falls, Mass.
Kanamacher, Samuel Houston	E. E.	220	101	Columbus
Kanamacher, Herbert L.	C. E.	216	10	Columbus
Kasley, Alexander Taylor	E. E.	216	54	Wheeling, W. Va.
Keuthan, Ferdinand Carl	C. E.	215	154	St. Marys
King, Herbert Spencer	C. E.	207	28	Medina
King, Patrick J.	E. M.	212	62	Rogerstown, Pa.
King, Roy Stevenson	E. E.	216	44	Xenia
Kirkpatrick, Williams Burns	E. E.	222	140	New Holland

* Preparatory work incomplete.

	Course	Debit hours	Credit hours	Address
Kline, Charles Henry.....	E. E.	222	166	Dayton
Knauss, Rannells Walton.....	E. E.	220	66	Columbus
*Knecht, Arthur E.....	M. E.	221	100	Cincinnati
Knox, Frank S.....	E. M.	203	53	Columbus
Krumm, Louis R.....	E. E.	220	108	Columbus
Krumm, Raymond.....	C. E.	215	167	Columbus
Kuhn, Valley Howard, E. E.....		222	222	Etna
Lamb, Whitney Earl.....	E. E.	216	42	Commercial Point
*Lanman, Charles.....	M. E.	222	125	Columbus
Lee, Corliss Edgar.....	E. E.	216	52	Pugh
Lee, Robert Miller.....	M. E.	222	139	Columbus
Leinbaugh, George Gurden.....	E. E.	220	62	Bellevue
Lindo, William Cleaver, C. E.....		215	215	Moneague, Jama.
Linebaugh, Jesse Joseph.....	E. E.	216	49	Pleasant Corners
*Lisle, Eli Mace.....	C. E.	215	144	Columbus
Little, Elijah Grant.....	C. E.	215	71	Dresden
*Loeb, Arthur Emanuel.....	E. E.	220	81	Columbus
Logan, Lavallette L., E. M.....		218	218	Horatio
Loos, Charles Louis, Jr.....	M. E.	219	47	Dayton
Loving, Paul.....	E. M.	203	7	Columbus
*Madden, Hugh.....	E. E.	216	51	Columbus
Marquard, Frank Fred, C. E.....		215	221	Dayton
*Martin, George.....	E. E.	222	163	Fredericksburg
*Mason, Charles F.....	E. E.	216	24	Columbus
Matson, William Edgar, E. E.....		222	222	Zanesville
Mercer, Frank E., E. E.....		222	222	Wauseon
*Mills, James Dwight.....	E. E.	216	53	Columbus
*Mills, John.....	M. E.	219	1	Brookville
Mills, Wilbur T.....	Ind. Arts	208	196	Columbus
Minkler, William Grant.....	C. E.	215	124	Fremont
Mitchell, David Johnson.....	E. E.	220	15	Beaver Falls, Pa.
*Montgomery, George Morris.....		....	43	Youngstown
Morgan, John R.....	M. E.	221	38	Youngstown
Morris, Clyde T.....	C. E.	215	110	Columbus
McCormick, Wm. Francis, M. E.....		221	221	Columbus
*McCowan, William Clarence.....	E. E.	216	....	Hookers
McGrew, John A.....	E. M.	215	....	Columbus
McIntire, Alfred Heber.....	E. E.	220	70	Mt. Vernon
McKee, Stanley Hayes.....	C. E.	207	53	Warren
McNary, George B., E. E.....		222	224	Bradford
*Neiswender, Clay Fagg.....	E. E.	216	29	Grove City
Nichols, Frank Butler.....	C. E.	215	135	Wyoming
*Nichols, John Lawrence Darvall.....	E. M.	212	47	Columbus
Norton, Victor Clarence.....	C. E.	207	28	Southington
Nurian, Kerson.....	E. E.	216	23	Bulgaria
Nutt, Harry Ward.....	E. M.	215	126	Youngstown

*Preparatory work incomplete.

	Course	Debit hours	Credit hours	Address
Pabodie, Robert J.....	M. E.	221	98	Wyoming
Patch, Homer A., C. E.		215	215	Austintown
Peck, Louis Tucker.....	E. E.	216	30	Staunton, Va.
Persing, William M.....	E. E.	216	13	Clyde
*Peters, Arthur Edward.....	E. E.	220	110	Toledo
Phillips, William Merrian.....	E. E.	216	43	Columbus
Pottinger, J. E.....	E. E.	216	54	Sater
Rawson, Levi.....	C. E.	215	76	New Lisbon
Reed, John Wesley.....	E. E.	222	130	Columbus
Reed, Robert Browning, E. E.....		222	222	Troy
*Reed, William Allen.....	E. M.	215	149	Lowellville
Rees, Carl S.....	E. M.	203	28	Newark
Rice, Herbert A.....	C. E.	215	161	Columbus
Richt, Fred Herman.....	C. E.	215	84	Cincinnati
Riddle, Carlton.....	M. E.	220	102	Milford Center
Riddle, Howard S.....	E. E.	222	162	Columbus
Rietz, Henry Lewis.....	C. E.	216	50	Gilmore
Roberts, Cyrus Swan, Jr.....	E. M.	212	105	Columbus
Roberts, William Clyde.....	C. E.	215	125	Galena
Roedelheimer, Albert E.....	E. E.	222	159	Denver, Col.
Rogers, James B., E. M.....		218	218	Youngstown
Rogers, John.....	E. M.	215	93	Bevier, Mo.
*Rohr, Ellis Todd.....	E. M.	222	163	Groveport
Roney, Joseph A.....	E. E.	216	45	Columbus
Rowlee, Henry Allison.....	M. E.	222	157	Lorain
*Roy, Robert Daugherty.....	C. E.	215	85	Glen Roy
Ruhlen, Carl Marble.....	M. E.	221	113	Columbus
*Rumple, Harry.....	M. E.	219	26	Lima
*Sackett, Lawrence A.....	E. E.	220	44	Columbus
*Sanfords, G. B. H.....	E. E.	216	8	
*Schaup, Charles.....	E. M.	215	143	Tiffin
*Schantz, Carl Wilehan.....	E. E.	216	18	Zimmerman
Schlesinger, Hugo N.....	C. E.	207	48	Xenia
Schreiber, John Martin.....	E. E.	220	110	Irononton
*Scott, James Kemper.....	M. E.	221	67	Newark
Scott, John Hayes.....	C. E.	215	108	Cambridge
Scott, W. S.....	E. E.	220	60	Carlisle, Ky.
*Seward, Russell M.....	E. E.	216	10	Columbus
*Sharp, J. R.....	E. M.	203	48	Columbus
Sharts, Stanley Rush.....	C. E.	215	105	Dayton
Shields, Samuel Mathers.....	C. E.	207	48	Steubenville
Siddall, William.....	M. E.	222	24	Cleveland
Skinner, William E.....	E. E.	222	25	Redfield
*Smallwood, Arthur Marion.....	E. E.	220	32	Bellevue
Smith, David William.....	E. E.	216	32	Ashland
Snider, Charles.....	Ind. Arts	208	161	Columbus

	Course	Debit hours	Credit hours	Address
Sowers, Emory Blose	E. E.	216	24	Westville
Sprague, Clarence M.	C. E.	207	53	Summerford
Spurrier, John R., E. E.		222	222	Chester Hill
Staley, Marcellus	E. E.	216	54	Dayton
*Stalter, Edward D.	C. E.	207	27	Columbus
Starbuck, Karl	E. E.	216	52	Barnesville
Steward, Hartford Toland, E. E.		222	222	Columbus
Stewart, Lee Raymond, C. E.		215	220	Fostoria
Stone, Carlton E.	C. E.	207	63	Gallipolis
Stover, Melvin Haines	E. M.	212	83	Sabina
Tarr, Edward Reynolds	E. E.	222	127	Wellsburg, W. Va.
Theobald, Julius	E. E.	222	148	Columbus
Thomas, Charles Townes	E. E.	216	39	Newark
Thomas, James Oscar	C. E.	215	160	Columbus
*Tufts, Charles H.	C. E.	215	91	Maineville
Upp, William H.	E. E.	222	28	Toledo
*Urban, Harry Marshall.	C. E.	215	108	Ashland
Van Horne, John Chittenden	C. E.	215	107	Fort Russell, Wy.
Walker, James Madison, C. E.		215	215	Wedonia, Ky.
Walker, Roland Hough	Ind. Arts	205	3	Columbus
Wasson, Robert B.	E. E.	216	1	Cadiz
Watt, Charles Wilton	M. E.	221	74	Barnesville
Weiland, John	E. E.	216	18	New Lexington
*Westwater, James Gulick	C. E.	207	26	Columbus
*Wetzel, Samuel C.	M. E.	219	36	Dayton
Wright, Frank Ernest	E. E.	216	49	Columbus
Williams, Fred Richard	E. E.	220	87	Columbus
Wirthwein, Louis P.	C. E.	207	53	Columbus
Wise, Albert Joseph	C. E.	215	109	Suffield
Wiseman, Carl	M. E.	221	55	Proctorville
Witter, Harry B.	Ind. Arts	205	6	Columbus
Wood, Charles E.	C. E.	207	2	Port Clinton
Wolf, Merritt	E. E.	216	14	Atwater
Worcester, Wood Frank	E. E.	220	92	Columbus

* Preparatory work incomplete.

SHORT COURSES

CLAY-WORKING AND CERAMICS—15

	Debit hours	Credit hours	Address
Adams, John Carroll	90	35	Lynchburg, Va.
Bleininger, Albert	90	40	Cleveland
Braddock, Everett F.	90	90	Richfield
DeLong, Archibald Zopher	90	30	Glen's Falls, N. Y.
Freeman, Alfred S.	90	12	Steubenville
Geysbeck, Samuel	90	45	Cincinnati
Giessen, Carl	90	85	Canton
Gorton, Elmer E.	90	106	Tonawanda, N. Y.
Hammond, Charles William	90		Bolivar
Ittner, Warren W.	90	15	St. Louis, Mo.
Jones, Edward J.	90	70	Zanesville
Shenkel, Remus G.	90	30	East Liverpool
Thomas, David Charles	90	70	New Straitsville
Wolfley, John W.	90	75	Delaware
Worcester, Wolsey G.	90	45	Columbus

MINE ENGINEERING—12

Arnold, Charles Elwood	90	16	Columbiana
Brophy, John S.	90	90	Elk Garden, W. Va.
Ferriot, Victor E.	90		Akron
Foster, William Coke	90	36	Higby Station
Gillespie, John Harvey	90	29	Mount Pisgah
Jones, William E.	30	30	Bevier, Mo.
Kelley, Austin J.	90	15	Ironton,
Ralston, William	90	82	Newman
Roy, Charles F.	90	20	Glen Roy
Roy, William A.	90	33	Glen Roy
Sager, H. M.	90	6	Shelby
Shoemaker, William David	90	5	Columbus

COLLEGE OF LAW

RESIDENT GRADUATE STUDENTS—15

	Address
Brown, Frank Irwin.....	Columbus
Carter, Charles Eleazer.....	Columbus
Daniels, David Edwin, LL. B.....	Columbus
Goodman, Joseph Clarence.....	Columbus
Grossner, Simon Arnold.....	Columbus
Guerin, Reynolds Freeman.....	Columbus
Heywood, Ferdinand Henry.....	Columbus
Howard, Edward Davenport, LL. B.....	Columbus
Jones, Richard, Jr.....	Columbus
Mosier, Orla Herbert.....	Columbus
Seeds, William Henry.....	Columbus
Seymour, Augustus Theodore.....	Columbus
Snider, Jesse Worthington, LL. B.....	Columbus
Wilson, Harry Rush, B. A., LL. B.....	Columbus
Wright, William Vanhorn, LL. B.....	Columbus

UNDERGRADUATES—100

	Year	Address
Arras, Edmund Frederick.....	Senior	Columbus
Bagley, Edgar Emmet.....	Middle	Zanesville
Bartholomew, Clyde Stanley.....	Special	Newark
Baughman, Harry Curtis.....	Junior	Shepard
Bean, Riley Hugh.....	Special	Columbus
Beem, Chapin Burton.....	Junior	Jersey
Bertsch, Joseph Franz.....	Senior	Columbus
Bibbe, George Edgar.....	Middle	Apple Grove
Blankner, George Casper.....	Special	Columbus
Bock, Harrison William.....	Junior	Canton
Boesel, Frank Tilden.....	Junior	West Salem
Bope, George Washington.....	Middle	Pleasantville
Boyd, Martin Luther, B. Ph (Scioto College).....	Middle	Kinsman
Brand, Henry Frank.....	Middle	Worthington
Bronson, Hiram Sherman.....	Middle	Columbus
Bruning, Henry Deidrich.....	Special	Columbus
Butler, Delano.....	Middle	Adelphi
Carlin, David Eugene.....	Junior	West Salem
Catlin, Homer Clark.....	Special	Columbus
Chittenden, Campbell Mithoff.....	Junior	Columbus
Coddington, Edwin Foster.....	Special	Conover
Compton, Charles Burns.....	Senior	Coshocton

	Year	Address
Conley, Charles H	Middle	Marion
Conway, Hugh Lawrence	Special	Springfield
Cormac, Freeman Clyde	Middle	Grigg's Corners
Crowley, Patrick Andrew	Junior	Columbus
Dakin, William Clarence	Junior	Sabina
Danford, Cook	Middle	Bellaire
David, William Luther, Jr	Middle	Findlay
Deahl, Walter Smith	Special	Columbus
Devol, Marion Luther	Senior	Flint
Dougan, Jesse Collins	Junior	Hemlock
Doster, Coke Leigh	Senior	New Martinsburg
Dunnick, Edward Francis	Special	Columbus
Eyans, John Gersham	Junior	Oak Hill
Garst, William Augustus, A. B. (Otterbein—Harvard)	Junior	Westerville
Garver, William Frederick	Senior	Pictoria
Genheimer, William Frederick	Junior	Wheelersburg
Gerhardt, Charles, A. B. (Ohio Normal University)	Senior	Circleville
Givens, Newton Edward	Senior	Waverly
(National Normal University)		
Gosline, Robert	Junior	Oak Harbor
Griffith, David Matthias	Senior	Kecksbury, Pa
Griffith, Benjamin Lincoln	Junior	Vaughnsville
Gugle, George Linville	Senior	Columbus
Hall, Charles Corban	Middle	Sidney
Herbert, Charles Thomas	Middle	Columbus
Hower, Charles Harris	Middle	Akron
Jeffrey, Robert Hutchins	Special	Columbus
Jones, William Henry, B. L. (Dennison University)	Junior	Granville
King, Thomas Roscoe	Junior	Lorain
Krumm, Raymond	Special	Columbus
Lanfersiek, Winfield Sutcliffe	Junior	Columbus
Layton, Verne Durand	Junior	Wapakoneta
Layton, Roy Everett, A. B. (Ohio State University)	Middle	Wapakoneta
Lee, Charles Turner	Junior	Columbus
Lewis, Thomas Evans	Junior	Granville
Lindo, William Cleaver	Special	Moneague, Jamaica
Luce, George Ernest, A. B. (Ohio Wesleyan)	Middle	Columbus
Magruder, Leonard Anthony, B. Ph.	Senior	Marietta
Manecke, Gilbert	Middle	Fostoria
Marguard, Frank Fred, B. L. (Twin Valley College)	Special	Dayton
Marshall, George Sidney, B. Ph. (Ohio State University)	Middle	Corning
Marshall, Charles Cracraft	Junior	Sidney
Martin, John Thomas	Junior	Columbus
(U. S. Military Academy, West Point)		

	Year	Address
Mechem, Louis Udell.....	Junior	Crab Apple
Miller, George Clement.....	Middle	Lancaster
Mitchell, John Grant, Jr., A. B..... (Yale University)	Middle	Columbus
Monsarrat, N. A.....	Junior	
Nevin, Charles Borland.....	Junior	Dayton
Nevin, Robert Reasoner.....	Junior	Dayton
Openlander, David Franklin.....	Senior	Sherwood
Osborne, Samuel Galloway.....	Middle	Columbus
Parsons, Harold Clapp.....	Middle	Akron
Perkins, Alvin Luther.....	Junior	Alliedonia
Perse, Edward M.....	Middle	Oak Harbor
Powell, Edward Thompson.....	Senior	Columbus
Priddy, Oscar Watson.....	Junior	Van Wert
Pryor, Charles Foster.....	Junior	Barnesville
Rhodes, Carey Wilson.....	Middle	Dayton
Sater, Lowry Francis, B. Ph..... (Ohio State University)	Middle	Sater
Scott, John Hayes.....	Special	Cambridge
Seikel, Edward Conrad.....	Middle	Columbus
Shank, Robert J.....	Middle	Hamilton
Simons, Arthur Gray.....	Junior	Columbus
Sinks, Frederick Nichols.....	Junior	Columbus
Smith, Edward Trevitt.....	Junior	Holden, Mo.
Snyder, Walter Steck.....	Middle	Allegheny, Pa.
Sternberger, Lamar.....	Junior	Jackson
Stevens, Frank Marion.....	Middle	Elyria
Stewart, Lee Raymond.....	Special	Fostoria
Tetlow, James G.....	Middle	Washingtonville
True, Allen J.....	Senior	Port Clinton
Trump, George Edward, A. B..... (Capital University)	Junior	Circleville
Walker, Frank, A. B..... (Monmouth College)	Middle	Zanesville
Watson, Benson Gruber.....	Junior	New Salem
Webber, Karl Thomas.....	Middle	Columbus
Weddell, Joseph Benjamin.....	Middle	West Newton, Pa.
West, Richard Sedgwick.....	Junior	Rix's Mills
Weyant, Theodore.....	Middle	Columbus
Williams, Lloyd Thomas.....	Junior	Jackson

COLLEGE OF PHARMACY¹

RESIDENT GRADUATE STUDENTS—I

	Address
Fisher, Robert, G. Ph.....	Columbus
(Ohio State University)	

THREE YEAR COURSE—46

	Credit hours	Address
Albert, Louise Mary, G. Ph.....	137	Columbus
Allaman, William Ernest, G. Ph.....	135	Brookville
Aukerman, Burt.....	3	Urbana
Barrick, Fred.....	5	Columbus
Baughman, George Washington.....	86	Leipsic
Bell, William Roscoe.....	88	Columbus
Boesche, Felix John, G. Ph.....	130	New Bremen
Bowen, Charles Flood.....	21	Columbus
Bradshaw, Harry J.....	51	Columbus
Braun, Joseph George.....	74	Columbus
Brewer, John Whitney, G. Ph.....	133	Columbus
Browning, Mark.....	58	Dennison
Bunnell, Lavone Allen.....	109	Waynesville
Burr, Frank Henry.....	42	Columbus
Calkins William Bartlett.....	121	Columbus
Cromley, Alva Miller.....	112	Ashville
Dalzell, Raymond.....	14	Shepard
Dresback, Paul.....		Columbus
Goodman, Sylvester Jacob, G. Ph.....	142	Columbus
*Guthridge, Charles Everett.....	32	Columbus
Hartman, Albert Jerome.....	48	Lawrenceville
Harvey, Sherman Lee, G. Ph.....	142	Harrisburg
Hoglen, John James.....	51	Columbus
Huddleson, Don Carlos.....	83	Columbus
Hyde, Cyrus Olin.....	35	Columbus
Karshner, Malcom A.....	52	Columbus

¹ The reorganization of this College, with a full four-year Course, and the re-adjustment of student work, necessarily postpones the complete statement of Debit Hours till the next Catalogue is issued.

* Preparatory work incomplete.

	Credit hours	Address
Keiser, Romeo Orpheus, B. Sc., G. Ph.....		Dayton
Kiler, Abdel William, G. Ph.....	130	Clifton
Lawrence, Arthur K.....	94	Columbus
Leffler, Edward Victor, G. Ph.....	131	Leipsic
Logsdon, Clement J.....	56	Columbus
Magly, Robert A.....	100	Columbus
Mebs, George Henry.....	94	Columbus
Metzger, Edward Henry.....	94	Circleville
*Moss, William.....	50	Buffalo
Obetz, Francis Herbert.....	115	Columbus
Reed, Arthur George.....	32	Columbus
Reese, William Henry, G. Ph.....	127	Glen Roy
Smith, Clarence E.....	50	West Brookfield
Smith, Ernest Edward.....	51	
Snyder, Walter.....	50	London
Sommermeir, Edward Everett.....	53	Westwood
Stump, William L.....	94	Nashport
Sutphen, James Leonard.....	107	Columbus
Sweet, Fred. Watson.....	51	Columbus
Swisher, William Henry, G. Ph.....	131	Cambellstown
Teter, Anstie Welsh, G. Ph.....	130	Springfield

COLLEGE OF VETERINARY MEDICINE¹

THREE YEAR COURSE—14

Boyd, James G.....	58	Columbus
Brumley, Oscar Delas.....	123	Townwood
Canfield, Charles Horace.....	128	Akron
Emerick, David Artic.....	110	West Milton
Good, John Verling.....		Basil
Jones, William Francis, D. V. M.....	193	Shandon
Kindig, Fred. O.....	55	Salem
Loveberry Clarence, D. V. M.....	170	Somerset
Miller, H. P.....	64	
Myers, E. Christley.....		
Myers, Murray J.....	111	Lewisville
Smith, William Morgan.....	110	Basil
Stevens, Jacob Franklin.....	117	Northville
Worcester, Warner.....	104	Columbus

⁰ Preparatory work incomplete.¹ The reorganization of this College, and the readjustment of student work, necessarily postpones the complete statement of Debit Hours till the next Catalogue is issued.

PREPARATORY STUDENTS¹—67

Albery, Herman W.....	Columbus
Armstrong, Russell Livingston.....	Celina
Arnold, Harry Crumley.....	Columbus
Atkinson, George Henry.....	Columbus
Aughenbaugh, Charles Ross.....	Ashtabula
Barrick, Robert H.....	Columbus
Beacham, Stella.....	Williamsburg
Biebl, Andrew.....	Gibbon, Minn.
Bredbeck, Albert George.....	Oak Harbor
Briggs, Florence Jeane.....	Columbus
Canfield, Dorothea Frances.....	Columbus
Cash, Paul Evan.....	Ambler
Cope, Mary H. L.....	Columbus
Creamer, Ancil Brooks.....	Jeffersonville
Crumley, Cloise Hamilton.....	Lancaster
Cureton, Benjamin Fletcher.....	Columbus
Damon, Owen H.....	Hinckley
Davis, Nellie Hanna.....	Columbus
Dickenson, Thomas Herbert.....	Columbus
Godown, Joseph A.....	Hilliards
Green, Edna S.....	Columbus
Hendershott, Cora.....	Columbus
Henry, George Garr.....	Columbus
Hessong, Robert.....	Columbus
Hoover, Fred R.....	Quincy
Jeffreys, Cora.....	Columbus
Jones, Elden.....	Columbus
Jones, Victor Waite.....	Columbus
Kellerman, Karl.....	Columbus
Kellogg, Merton Estee.....	Columbus
Kimberly, Charles Hubbell.....	North Fairfield
Kinder, Gordon Donald.....	Ottawa
Lashley, Daniel V.....	Centerville, Ind.
Lawlor, Edward Fenton.....	Carrollton
Logsdon, Carey Ligouri.....	Columbus
Long, Bessie Melrose.....	Columbus
Luse, Vera I.....	Columbus
Madden, Ernest.....	Columbus

¹ All preparatory work was dropped from the University curriculum at the close of the current year. Students may still begin Greek, German and French at the University. For the conditions of this work, see the Bulletins of the Colleges; and pages 57, 58, 66, of this Catalogue.

Mercer, Jessie.....	Chester Hill
Miller, Claude Dale.....	Newark
Montgomery, John R.....	New Lexington
Mooar, Harry Landis.....	Columbus
Moore, Edgar Howard.....	Columbus
Mundhenk, Herbert C.....	Brookville
Myers, Frederick Loving.....	Columbus
McBean, John George.....	Cadiz
McDaniel, Ethel Fay.....	Raccoon Island
Oldham, U. Lester.....	Springfield
Powell, John Watkins.....	Radnor
Redrow, Walter Leffingwell.....	Williamsburg
Ryland, Paul Dillon.....	Columbus
Sayres, Oneida Wahneta.....	Jacksontown
Scott, Dudley.....	Columbus
Seymour, Raymond Jesse.....	Columbus
Sharp, Stephen Albert.....	Lowell, Kansas
Slater, Clarence.....	Nelsonville
Slaughter, Nellie E.....	Columbus
Smith, Thomas Jefferson.....	New Lexington
Stimmel, George Lintner.....	Columbus
Stimson, George William.....	Columbus
Thurman, Allen G., Jr.....	Columbus
Waltermire, William M.....	Columbus
Watt, James William.....	Santa Anna, Cal.
Weick, Carrie Rosina.....	Columbus
Williams, Benjamin Seeds.....	Lockbourne
Wright, M. James.....	Worthington
Young, John Wesley.....	Columbus

SUMMER SCHOOL—65

1895

Anderson, Y. R.	Wauseon
Auld J. A.	Columbus
Baer, P. Jr.	Canal Dover
Brand, H. F.	Worthington
Brown, H. G.	Columbus
Brown, H. W.	Columbus
Brugger, H.	Columbus
Clawson, C. A.	O'Keana
Connor, Miss A.	Columbus
Cronebach, C. L.	New Philadelphia
Cureton, B. F.	Columbus
Cureton, E. H.	Columbus
Dickinson, T. C.	Columbus
Dunham, A. H.	Santa Monica, Cal.
Easton, W. A.	Springfield
Elliot, H.	Columbus
Fraser, C. A.	Wellsville
Gee, E. C.	Wheeling W. Va.
Geren, H. O.	Columbus
Gilmore, W. H.	Lancaster
Harward, A. D.	Gahanna
Hastings, O. B.	Columbus
Hermes, A.	Columbus
Heywood, Harry	Wapakoneta
Hoover, F. R.	Quincy
Howard, Homer C.	Columbus
Howells, Thomas J.	Bridgeport
Hunt, Miss. C. A.	Cincinnati
Jacoby, Miss E. A.	Columbus
Jacoby, Mrs. C. A.	Columbus
Johnson, J. S.	Columbus
Kline, Ella	New Philadelphia
Leibald, A.	Columbus
Lied, E. M.	Columbus
Linn, H. M.	Sandusky
Long, J. A.	Chillicothe
Lyon, E. D.	Columbus
Madden, A. W.	Columbus
Mason, C. F.	Columbus
Minkler, W. G.	Fremont
Moore, L. B.	Piketon
Mullay, Kate	Columbus
Mullay, Rose	Columbus

McAllister, E. S.	Columbus
Needles, A. R.	Groveport
Osgood, Miss Anna	Columbus
Osburn, R. C.	Columbus
Phelps, Miss L.	Xenia
Pfarr, P. L.	Minersville
Plum, H. M.	St. Paul's
Pumphreys, F. E.	Clayton
Pumphreys, J. H.	Clayton
Rasor, S. E.	Clayton
Reed, J. W.	Columbus
Reinoehl, C. H.	Crone
Robinson, Miss Zella	Columbus
Sellenings, A. E.	Chillicothe
Southard, T. C.	Columbus
Stevens, Mrs. A. C.	Chardon
Thomas, D. C.	New Straitsville
Thrall F. R.	Columbus
Tooill, G. W.	Jeffersonville
Watt, M. E.	Sellsville
Wing, M. T. C.	Columbus
Winspear, J. A.	New Philadelphia

GENERAL SUMMARY

RESIDENT GRADUATE STUDENTS—

College of Agriculture.....	3	
College of Arts, Philosophy and Science.....	10	
College of Law.....	15	
College of Pharmacy.....	2	29

UNDERGRADUATES—

College of Agriculture.....	38	
College of Arts, Philosophy and Science.....	282	
College of Engineering.....	286	
College of Law.....	100	
College of Pharmacy.....	46	
College of Veterinary Medicine.....	14	
Short Courses and Special Courses.....	83	
Preparatory Courses.....	67	
Summer School.....	65	981

Names counted twice.....	1,010	
	41	

Net Total.....	969	
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SUMMARY BY STATES AND COUNTRIES

Bulgaria.....	1	Kansas.....	1	Oklahoma.....	1
California.....	2	Kentucky.....	2	Pennsylvania.....	8
Colorado.....	2	Massachusetts.....	2	Roumania.....	1
Connecticut.....	1	Michigan.....	1	Virginia.....	2
Georgia.....	1	Minnesota.....	1	West Virginia.....	7
Illinois.....	3	Missouri.....	6	Wyoming.....	1
Indiana.....	4	New York.....	4		
Jamaica.....	1	Ohio.....	946		

SUMMARY BY COUNTIES

Adams.....	2	Guernsey.....	8	Morrow.....	2
Allen.....	4	Hamilton.....	11	Muskingum.....	15
Ashland.....	3	Hancock.....	3	Noble.....	1
Ashtabula.....	13	Harrison.....	4	Ottawa.....	6
Athens.....	2	Henry.....	4	Perry.....	20
Auglaize.....	11	Highland.....	4	Pickaway.....	10
Belmont.....	18	Hocking.....	1	Pike.....	2
Butler.....	6	Holmes.....	3	Portage.....	4
Carroll.....	1	Huron.....	5	Preble.....	4
Champaign.....	9	Jackson.....	12	Putnam.....	6
Clark.....	9	Jefferson.....	4	Richland.....	2
Clermont.....	8	Knox.....	8	Ross.....	12
Clinton.....	7	Lake.....	1	Sandusky.....	4
Columbiana.....	9	Lawrence.....	5	Scioto.....	9
Coshocton.....	4	Licking.....	20	Seneca.....	5
Crawford.....	4	Logan.....	5	Shelby.....	2
Cuyahoga.....	3	Lorain.....	9	Stark.....	10
Darke.....	3	Lucas.....	4	Summit.....	8
Defiance.....	4	Madison.....	12	Trumbull.....	5
Delaware.....	7	Mahoning.....	8	Tuscarawas.....	9
Erie.....	8	Marion.....	2	Union.....	4
Fairfield.....	13	Medina.....	6	Van Wert.....	1
Fayette.....	9	Meigs.....	6	Vinton.....	1
Franklin*.....	422	Mercer.....	1	Warren.....	6
Fulton.....	4	Miami.....	9	Washington.....	2
Gallia.....	5	Monroe.....	1	Wayne.....	4
Geauga.....	2	Morgan.....	7	Wood.....	1
Greene.....	9	Montgomery.....	31	Wyandot.....	1

* Nearly forty per cent. of the students registered from Franklin county are those whose homes are at Columbus only during their University course.

ALUMNI

Alumni

The Faculty of the Ohio State University are anxious to place a copy of each annual catalogue in the hands of every graduate. They will esteem it a favor if any alumnus who changes his residence will notify the Executive Office of his new address and occupation. They will also be grateful for any information from any source, that may assist in making or keeping the Directory of the Alumni complete and correct.

ALUMNI ASSOCIATION

OFFICERS FOR 1896-97

KENNETH D. WOOD, '81, Columbus.....	<i>President</i>
Mrs. ALICE TOWNSHEND WING, '80, Newark	<i>Vice-President</i>
JOHN A. BOWNOCKER, '89, Columbus.....	<i>Secretary</i>
CLAIR A. DYE, '91, Columbus	<i>Treasurer</i>
REV. CARL G. DONEY, '91, Granville	<i>Orator</i>

COMMITTEE ON COLLEGE AFFAIRS

GEORGE R. TWISS, '85, Cleveland	Term expires 1897
EDWIN E. CORWIN, '80, Columbus	" 1898
SCOTT ANDERSON WEBB, '88, Columbus.....	" 1899
WALTER J. SEARS, '94, Chillicothe	" 1900
FLORIZEL SMITH, '80, Columbus.....	" 1901

COMMITTEE ON NECROLOGY

WILBY GRIMES HYDE, '87, Chillicothe.....	Term expires 1897
WILLIAM L. GRAVES, '93, Columbus	" 1898
GEORGE S. MARSHALL, '94, Columbus	" 1899

Directory of Alumni

A

- Ackerman, Eli Osborn, 1884, C. E., 2664 North High street, Columbus, farmer.
Ackerman, Fremont, 1883, C. E., Los Angeles, Cal., civil engineer.
Addison, Arthur Evert, 1895, B. Ph., Columbus, teacher South High School.
Addison, Louis Granville, 1892, LL. B., Columbus, attorney-at-law.
Addison, Clarence Maywood, 1896, B. Ph., Columbus, teacher Central High School.
Agler Eulalia, 1895, G. Ph., Columbus.
Albert, Louisa Mary, 1896, G. Ph., Columbus.
Aldrich, Chester H., 1888, B. A., LL. B., David City, Neb., attorney-at-law.
Alexander, St. Clair, 1893, M. E., Bridgeport.
Allaman, William Ernest, 1896, G. Ph., Brookville.
Alsdorf, Percy Reed, 1896, E. M., Utica.
Alsdorf, Frederick Charles, 1892, E. M., Central City, Col. general manager, DuQuesne Mining Co.
Anderson, James T., 1884, B. A., Colorado Springs, Col., 1st Lieutenant U. S. Army.
Andrews, Albion Joseph, Jr., 1893, LL. B. (B. S., Ohio Wesleyan University), Zanesville, O.
Andrews, Lincoln Elmer, 1893, LL. B., 1895, B. Ph., Columbus, attorney-at-law.
Armstrong, William H., 1890, G. Ph., Marysville, druggist.
Arnold, Charles Lincoln, 1890, B. Sc., 1894, M. Sc., Eleventh avenue, Columbus, assistant in mathematics, State University.
Atkins, G. Glenn, 1888, B. A., Greenfield, Mass., pastor Congregational Church.

B

- Bachtell, Nellie May, 1895, B. A., Columbus.
Backhaus, Henry Ward, 1894, B. A., St. Mary's.
Bagley, Anna Gertrude, 1894, G. Ph., Columbus.
Baker, William Hollister, 1892, B. Agr., Farmersville, Mo., farmer and stock raiser.
Baldwin, Zoa Belle, 1896, B. A., Columbus.
Ball, Emma Leanna, 1895, B. Sc., 1896, M. Sc., Ironton.
Ball, Fred. S., 1888, B. Ph., Montgomery, Ala., attorney-at-law.
Barnaby, Josephine, 1896, B. Ph., St. Paul, Minn., teacher.
Bartholomew, Clyde Stanley, 1896, C. E., Newark, civil engineer, B. & O. Ry.
Basterdes, Ada Mabel, 1890, B. Ph., Plano, Ill., teacher in High School.
Bates, Josephine M., 1881, B. Ph., Mrs. Florizel Smith, Columbus.
Bates, Wesley C., 1882, LL. B., 35½ N. High street, Columbus, attorney.
Beach, David Price, 1895, C. E., Pittsburg, Pa., in employ of Pennsylvania Railroad.
Beach, Margaret Alice, 1891, B. Ph., Columbus, teacher South High School.
Beattie, William Renick, 1894, B. Sc., florist State University.

- Beck, Arthur Andrew, 1893, C. E., Columbus, county surveyor's office.
- Belden, Sanford Bonn r, 1895, E. M., Chicago, Ill., with Chicago Electric Mining Engineering Co.
- Bell, Mary Edith, 1894, B. Ph., St. Paul, Minn., teacher.
- Bennett, Henry C., 1890, B. A., 100 Washington street, Chicago, Ill., attorney-at-law.
- Bennett, Samuel E., 1890, D. V. M., Lexington, Ky., professor of veterinary medicine, Kentucky Agricultural College.
- Bentley, William Preston, 1885, B. Agr. (B. A. 1890, M. A. 1893, Bethany College), 15 Miller Road, Shanghai, China, missionary.
- Bertsch, Joseph Franz, 1896, LL. B., Columbus.
- Biebel, Herman Matthews, 1896, M. E., Columbus, Fellow in Electrical Engineering, State University.
- Bissing, William, 1893, M. E., Washington, D. C., patent office.
- Blackburn, Frank H, 1896, M. E., New Vienna.
- Blaire, Edward Grey, 1895, G. Ph., Columbus, pharmacist, Eighth ave. and High.
- Blakiston, Mary, 1893, B. Ph., Columbus, teacher in South High School.
- Blinn, Ray S, 1893, B. S., Columbus, illustrator.
- *Bloom, Edwin M, 1893, B. Sc., died, 1894.
- Bloom J. George, 1889, C. E., Cincinnati, assistant engineer, B. and O. S. W. R'y.
- Bloomfield, Lloyd Morris, 1891, B. Agr., Wooster.
- Boesche, Felix John, 1896, G. Ph., New Bremen.
- Boesel, Frank Tilden, 1896, B. Ph., New Bremen.
- Bogue, Ernest Everett, 1894, B. Sc. H. & F., 1896, M. Sc., Norma, Okla.
- Bone, John H., 1893, B. Sc.
- Booth, Lucy Adelaide, 1892, M. A., (B. A., Ohio Wesleyan University), 1894, Ph. D., Columbus.
- Boyd, Emma, 1888, B. Ph., 38 W. Woodruff ave., Columbus, graduate student State University and teacher in the North High School.
- Boyd, Jam-s Ellsworth, 1891, B. Sc., assistant professor of Physics State University.
- Bownocker, John A., 1889, B. Sc., Columbus, assistant in geology, State University.
- Bradford, Ernst, 1892, G. Ph., S. Garfield ave., Columbus, chemist.
- Bradford, Joseph Nelson, 1883, M. E., 54 West Tenth avenue, Columbus, associate professor of drawing, State University.
- Brand, Harry Frank, 1896, B. Ph., Worthington, student in College of Law.
- Brandt, Ulysses Sherman, 1895, B. A., Canal Winchester, superintendent schools.
- Brewer, John Whitney, 1896, G. Ph., Columbus.
- Brier, Harvey E, 1890, D. V. M., Tippecanoe City, veterinary surgeon.
- Brown, Frederick W., 1888, E. M., Bellefontaine, superintendent Buckeye Portland Cement Co.
- Brown, Newton H., 1893, M. E., Columbus.
- Bruce, Charles A., 1895, B. A., Columbus, assistant in French, State University.
- Brumley, David Joseph, 1895, C. E., Evansville, Ind., with L. & N. R'y.
- Bruning, Henry Dietrick, 1896, C. E., Columbus.
- Buckman, Ola, 1885, B. Sc., Cleveland, student medical school.
- Burkett, Charles William, 1895, B. Sc., assistant in Agriculture, State University.
- Burns, James Ferguson, 1891, C. E., Evansville, Ind., assistant engineer L. & N. R'y
- Butler, James Marion, 1894, LL. B. (A. B., Ohio Wesleyan University), Carmel.
- Byers, Clara, 1894, B. Ph., 264 Ashby street, Atlanta, Ga.

C

- Cahen, Alfred, 1894, LL. B., Allegheny, Pa.
 Calkins, George Herbert, 1895, M. E., Columbus.
 Canfield, Leander Randall, 1896, B. Ph., Chardon.
 Capron, Marshall Fremont, 1888, M. E., Kenton, architect.
 Carr, Hugh Stanley, 1896, E. E., Yellow Springs.
 Carroll, Patrick Henry, 1894, E. M., Houtzdale, Pa.
 Carroll, William, Hunt, 1894, LL. B., Wilmington.
 Carson, Samuel King, 1895, M. E., Columbus, student, Ohio Medical University.
 Cathcart, Josephine M, 1888, B. Sc., Hudson, bookkeeper.
 Catlin, Homer Clark, 1896, C. E., Yellow Springs.
 Canaga, George Orlando, 1895, LL. B. (B. A., Scio College).
 Cartwright, Henry Gilroy, 1895, LL. B.
 Cellarius, Frederick Julius, 1888, C. E., Dayton, assistant city engineer.
 Chamberlain, Helena W., 1884, B. A., Mrs. Ellis Lovejoy, Union Furnace.
 Charters, William Filson, 1887, B. Ph., Sidney, tax inquisitor.
 Cherryholmes, W. K., 1881, B. Sc., M. D., Hamilton, physician.
 Chalmers, Agnes Florida, 1895, B. P., Bay City, Mich., teacher.
 Cilley, Raymond, 1896, C. E., Cincinnati.
 Clay, Albert Arlington, 1893, LL. B. (B. A., Tri-State Normal College), Hicksville.
 Claypoole, Bessie Smith, 1895, B. Ph., Columbus, student.
 Claypoole, Charlotte Lake, 1892, B. Ph., Columbus, North High street.
 Clum, George V., 1893, B. A., Mendota, Ill., president of Mendota College.
 Cockins, Edith D., 1894, B. A., Columbus, record clerk, State University.
 Coddington, Edwin F., 1896, C. E., fellow in Astronomy, State University.
 Cole, George Nathan, 1891, M. E., Columbus, student Ohio Medical University.
 Coney, Willam Hawks, 1894, B. Sc., Honolulu, S. I.
 Connell, Laura Jewell, 1896, B. Ph., Columbus.
 Connell, William A., 1886, E. M.
 Converse, Edward Joseph, 1886, B. A., B. D., Yale, New Haven, Ct.
 Converse, Howard Pendleton, 1887, B. Sc., 166 Devonshire street, Boston, Mass.,
 manager Boston office Cooper, Hewitt & Co., steel and iron manufacturers.
 Conway, Hugh Lawrence, 1896, C. E., Springfield.
 Corns, Harry, 1887, B. A., Columbus, teacher in Central High School.
 Corwin, Edwin E., 1880, B. A., 89 East Fifth avenue, Columbus, attorney-at-law.
 Coursaul, Jesse H., 1893, B. A., Columbus, teacher in Central High school.
 Collins, Curtis, 1895, M. E.
 Covell Vernon Royce, 1895, C. E., Pittsburg, Pa.
 Craig, Moses, 1889, B. Sc., (M. S., Cornell University, 1890), 1896. M. Sc. H. & F.,
 Forest Grove, Oregon.
 Crawford, Ira, Jr., 1893, LL. B. (B. S., Dennison University), Dayton.
 Crawford, William Sterling, 1888, B. Ph., Missoula, Mont., correspondent of the Ana-
 conda Standard.
 Crooks, Charles Melville, 1892, B. A., 41 Divinity Hall, Cambridge, Mass., graduate
 student Harvard University.
 Crouner, Delbert Alonzo, 1896, B. Sc. (Agr.), Ohio Experiment Station, Wooster.
 Cummins, Henry Rollins, 1891, G. Ph., Hunter street, Columbus.

- Cunningham, Arthur, 1880, B. A., 107 Lincoln street, Columbus, bookkeeper.
 Cunningham, Edward Walter, 1894, C. E., Pittsburg, Pa., with Shoenberger Steel Co., engineering department.
 Cunningham, George S., 1886, B. Ph., LL. B., Lancaster, attorney-at-law.

D

- Daily, Henry G., 1892, D. V. M., Wooster, veterinary surgeon.
 Daniels, David Edwin, 1893, LL. B., (B. Ph., Dennison University), 1896, LL. M., Columbus.
 Davidson, David Millen, 1894, B. A., law student, Chicago, Ills.
 Davies, John Lodwick, 1894, LL. B., Minneapolis, Minn., attorney-at-law.
 Davis, Charles William, 1894, E. M., Colorado Springs, Col., teacher of science, High School.
 Deahl, Walter Smith, 1896, C. E., Columbus.
 Deardurff, Carl Mason, 1895, B. A.
 DeLamater, Clayton William, 1884, A. B., LL. B., Omaha, Neb., attorney-at-law.
 DeLoffre, Andre, 1896, E. E., Fort Logan, Col.
 DeLoffre, Samuel Middleton, 1895, B. A.
 Dennis, Jerry, 1892, LL. B., 1893, LL. M., Columbus, attorney-at-law.
 Derby, Florence Harlow, 1896, B. Ph., Columbus.
 Detmers, Fredericka, 1887, B. Sc., 1891, M. Sc., 1215 Neil ave., Columbus, teacher.
 Devol, William Stowe, 1886, B. Agr., Tucson, Arizona, director Agricultural Experiment Station; professor, Agricultural University of Arizona.
 Diemer, Hugo, 1896, E. E., Cincinnati.
 Dietrich, Charles Henry, 1878, B. Sc., with American Book Co., general manager for Kentucky.
 Doney, Carl Gregg, 1891, B. Sc., 1893, LL. B., Granville, pastor First M. E. Church.
 Donham, Maurice, 1896, M. E., Cincinnati.
 Donham, William W., 1882, B. Sc., Lindale, superintendent of schools.
 Dun, George William, 1884, B. Sc., Columbus, manager of Dun-Perley Company.
 Dun, John J., 1883, E. M., Fifteenth ave., Columbus, of Columbus Construction Co.
 *Dun, Walter Angus, 1878, B. Sc., M. D., died Nov. 7, 1887.
 Dungan, Irvine Laird, 1892, B. Ph., Cincinnati, Lane Theological Seminary.
 Dunlap, Thaddeus Cox, 1895, M. E., Columbus.
 Dunlap, William Renick, 1895, B. Sc., Kingston.
 Dye, Clair Albert, 1891, G. Ph., Columbus, assistant in pharmacy, State University.

E

- Early, Franklin E., 1893, D. V. M.
 Easterday, Charles Todd, 1891, G. Ph., Wellston, druggist.
 Egbert, Knott C., 1890, B. Agr., Tiffin, superintendent fruit farm.
 Ellis, Charles, 1889, D. V. M., 3230 Locust street, St. Louis, Mo., veterinarian.
 Emery, Peyton Randolph, 1893, LL. B., London.
 Emery, Vernon Judson, 1887, B. A. (A. M., University of Nebraska), Cleveland, assistant professor of Latin, Western Reserve University.
 Erskine, John H., 1886, E. M., Lowellville, fire brick-manufacturer.

- Evans, Ernest, 1892, B. Sc., Mingo Junction, chemist, Laughlin Junction Steel Co.
 Evans, Peter Platter, 1892, C. E., Cleveland, engineer C., L. and W. Railway.
 Evans, William Lloyd, 1892, B. Sc., 1896, M. Sc., Columbus, first assistant director of
 the Department of Clayworking and Ceramics, State University.
 Eysenbach, Ernest, 1896, E. M., Delphos.

F

- Fairchild, Harmon Scott, 1894, LL. B., Springfield.
 Farber, Charles Harker, 1894, B. A., Columbus, with Brooks & Butler Banking Co.
 Fassig, Oliver L. 1882, B. Sc., Washington, D. C., librarian U. S. Weather Bureau.
 *Fay, Frederick Willis, 1882, B. A., B. Arch., died August, 1892.
 Feicht, Russell Stimson, 1890, M. E., Philadelphia, Pa., Philadelphia Traction Co.
 Fergus, John Franklin, 1892, LL. B., Columbus, attorney-at-law.
 Finley, Harry Marshall, 1894, B. A., Maysville, Ky., teacher in High School.
 Fischer, Julius H. R. Paul, 1891, B. Agr., D. V. M., Logan, Utah, professor of agriculture and veterinary medicine, University of Utah.
 Fischer, Robert, 1895, G. Ph., 1896, M. Ph., Columbus, student State University.
 Fisher, Clara, 1886, B. A., Mrs. J. Porter Milligan, Columbus.
 Fisher, Georgietta, 1895, B. A., Mt. Vernon, teacher in High School.
 Fitzgibbon, James Robert, 1894, LL. B., Newark.
 Floto, Julius, 1889, E. M., P. O. box 332, Cincinnati, sales agent.
 Flynn, Harry Franklin, 1892, C. E., Washington, D. C., computer U. S. Geodetic and
 Coast Survey
 Flynn, Maud, 1896, B. Sc., graduate student, State University.
 Flynn, Oscar Rogers, 1896, B. Sc., teacher in High School, Columbus.
 Foley, William J., 1894, D. V. M., Lexington, Ky.
 Forgy, Ralph Morris, 1896, B. Ph., Troy.
 Foster, Dudley Hampton, 1895, B. Ph., LL. B., attorney-at-law, Corning.
 Foster, Frank McMillan, 1894, M. E., Omega.
 Foulk, Charles William, 1894, B. A., assistant in chemistry, State University.
 Fowler, Harry R., 1894, M. E.
 Fox, Charles P., 1890, B. Agr., 1895, M. Agr., Moscow, Idaho, professor of agriculture
 and director of Agricultural Experiment Station.
 Fox, Frederick Hugh, 1896, B. Ph., McConnellsville.
 Francis, Edward, 1894, B. Sc., Cincinnati, student Miami Medical College.
 Francis, Mark, 1887, D. V. M., College Station, Brazos Co., Tex., professor of veterinary
 medicine, Agricultural and Mechanical College.
 Fravel, George B., 1888, M. E., Indianapolis, Ind., assistant master mechanic Pan
 Handle shops.
 Frayer, Lee Ambrose, 1896, M. E., Greenwich.
 French, Thomas Ewing, 1895, M. E., assistant in drawing, State University.
 Fritchle, Oliver Parker, 1896, B. Sc., graduate student, State University.

G

- Gains, Charles E., 1889, B. Ph., London, physician.
 Galbraith, John Howard, 1883, B. Ph., Oak street, Columbus, journalist.
 Gale, Cora C. 1893, B. Ph., Columbus.

- Gale, Franklin Henry, 1893, LL. M. (LL. B., University of Michigan), Columbus.
- Game, Reed Haskell, 1896, B. Ph., student in College of Law, State University.
- Garber, Alberta D., 1889, B. Ph., A. M., Norwood.
- Gehrkins, Edward Frederick, 1894, E. E., Kelley's Island, with General Electric Co.
- Geissinger, James Allen, 1895, B. A., Cincinnati.
- Genheimer, Eli Thomas, 1896, B. Ph., Wheelersburg.
- Gibbs, George C., 1893, B. A., Columbus, O., with Green, Joyce & Co.
- Given, James Byron, 1896, E. E., New Concord.
- Givens, Newton Edgar, A. B., 1896, LL. B., Waverly.
- Glover, Sioux, 1882, B. Sc., Mrs. Horton, Errid, Pa.
- Goddard, Loring Hapgood, 1892, C. E., Columbus, civil engineer and architect.
- Goodell, Ralph Spencer, 1892, C. E., Columbus, draughtsman Columbus Bridge Co.
- Goodman, Joseph Clarence, 1896, LL. M., Columbus.
- Goodman, Sylvester Jacob, 1896, G. Ph., Columbus.
- Gordon, Adelaide Cummins, 1896, B. Ph., Columbus.
- Grandle, Frank Albert, 1891, G. Ph., 203 East Main street, Newark, druggist.
- Graves, William L., 1893, B. A., assistant in Rhetoric State University.
- Gray, James Collam, 1892, LL. B., 1893, LL. M., Pittsburg Pa., attorney P. R. R'y.
- Green, Charles C., 1885, B. Sc., M. D., Beaver City, Neb., physician.
- Green, Jerome Joseph, 1893, M. E., South Bend, Ind., Notre Dame University, professor in charge of electrical department.
- Green, Robert Lee, 1892, G. Ph., High and Eighth avenue, Columbus, druggist.
- Gregg, Frank B., 1889, P. Ph., M. D.
- Gregory, Hiram D., 1880, E. M., attorney-at-law, Grayson, Ky.
- Griffin, Theodore L., 1889, B. Sc., M. Sc., Columbus, chemist.
- Griffith, David Mathias, 1896, LL. B., Kecksburg, Pa.
- Griffith, Wellington John, 1892, LL. B., Tiffin.
- Grimsley, George Perry, 1890, B. A., 1891, M. A., (Ph. D., Johns Hopkins University, 1894), Topeka, Kansas, professor natural history, Wasburn College.
- Griswold, Lawrence William, 1892, B. A., New York City, London Assurance Co.
- Groff, Orsylla Ann, 1894, G. Ph., North High street, Columbus, pharmacist.
- Groff, Warren Noble, 1896, B. A., Tiffin.
- Guerin, Martha, 1896, B. Ph., teacher, Princeton, Ky.
- Gugle, George Linville, 1896, LL. B., Columbus.
- Guittard, Virgil, 1894, B. Sc., New Bedford.
- Guss, Sherman Hamlin, 1892, B. A., Clarksburg, W. Va., principal of the colored schools.

H

- Haas, Frank, 1895, C. E., 1896, E. M., assistant in metallurgy, State University.
- Hagler, Howard 1889, B. Sc. Washington C. H., farmer.
- Hall, Harry R., 1889, E. M., Parryville, Pa., chemist Carbon Iron and Pipe Co.
- Halterman, Oscar Elmore, 1895, LL. B., (B. S., National Normal University).
- Hamilton, Charles R., 1893, B. A., Zanesville, Dunn's Commercial Agency.
- Hamilton, Frank Alexander, 1895, D. V. M., Dubois, Pa., veterinary surgeon.
- Hammond, Rose Lyttle, 1896, B. Ph., Columbus.
- Hancock, David R., 1889, G. Ph., M. D.

- Haney, Thomas Carlyle, 1894, G. Ph., Mt. Sterling, pharmacist.
- Hannum, William Hamilton, 1887, B. A., Ratnagiri, India; American Presbyterian Mission in Western India.
- Harbage, Arnett, 1893, D. V. M., West Jefferson.
- Harlor, John David, 1895, B. A., teacher in High School and superintendent of schools Worthington.
- Harris, Frank Laverne, 1894, L.L. B., (Ph. B., Tri-state Normal University), Payne.
- Harris, Walter Conger, 1893, B. Sc., 68 W. Thirty-fifth street, New York, with Art Department of Herald.
- Harrison, Warner, 1892, L.L. B., East Town street, Columbus, attorney and solicitor C., A. & C. Railway.
- Harrison, William Henry, 1885, C. E., Anaconda, Montana.
- Harrold, Ernest Ellwood, 1895, G. Ph., dispenser chemical store-room, State University.
- Hartwell, Arthur, 1888, M. E., Pittsburg, Pa., electrical engineer Westinghouse Electrical and Manufacturing Co.
- Harvey, Arlington Corylle, 1896, B. Ph. fellow in Rhetoric, State University.
- Harvey, Emory Wayland, 1896, B. Ph., with A. H. Smythe, Columbus.
- Harvey, Sherman Lee, 1896, G. Ph., Harrisburg.
- Hassler, Robert Hanich, 1892, M. E., Pittsburg, Pa., Westinghouse Electrical and Manufacturing Co.
- Hayes, Seth, 1892, B. Sc., Fremont, principal of High School.
- Hayward, George E., 1893, C. E., New Philadelphia, engineer, C. L. E. & W. Ry.
- Hazlett, Robert, Jr., 1887, C. E.
- Heath, Arthur T., 1887, G. Ph., Harbor, analytical chemist.
- Hebble, Charles Roy, 1896, E. E., Xenia.
- Hedges, Harry, 1888, B. A.
- Heller, Albert Henry, 1890, C. E.
- Henretta, Charles Michael, 1896, E. M., Moundsville, W. Va.
- Herrick, Louise, 1893, B. A., teacher in High School, Columbus.
- Hess, Florence Louise, 1895, B. Ph., Columbus.
- Hiatt, William Arthur, 1895, B. Ph., Deshler, teacher in High School.
- Higbee, Charles E., 1883, B. Sc.
- High, Odessa, 1896, B. A., West Jefferson.
- Hill, Frank E., 1886, B. Sc., M. D.
- Hill, I. T. Reynolds, 1896, B. Sc. (H. & F.), Berlin Heights.
- Hine, James S., 1893, B. Sc., Columbus, assistant in Entomology, State University.
- Hine, Lucius A., 1888, E. M., Chicago, Ill., Chicago Electric Co.
- Hoel, Sarah Elizabeth, 1893, B. Sc., Waynesville.
- Homan, Frank, 1895, C. E.
- Hood, Sherman, 1894, B. Sc., Meander.
- Hopkins, Charles Delnow, 1893, L.L. B. (B. A., Ohio Wesleyan University), Athens.
- Horton, Henry Pomeroy, 1889, B. Ph., student Union Theological Seminary, New York.
- Houston, Anna Christine, 1892, B. Ph., 1895, M. A., Marysville.
- Howald, Ferdinand, 1878, B. Sc., Rush Run, W. Va., manager of mining operations.
- Howard, A. B. 1883, B. Ph., Price Hill, Cincinnati, clergyman.

- Howard, Curtis C., 1878, B. Sc., M. Sc., 115 Jefferson avenue, Columbus, professor of chemistry in Starling Medical College.
- Howard, Fanny Fern, 1896, B. A., Columbus.
- Howard, Edward Davenport, 1894, LL. B., 1896, LL. M., Columbus, assistant prosecuting attorney, Franklin county.
- Howard, John Wilmont, 1895, B. Sc., Columbus, journalist.
- Hubbard, Ralph Newton, 1891, B. Sc., Columbus, Tallmadge Hardware Co.
- Hull, Mary Louise, 1894, B. A., Columbus, (Mrs. C. H. Farber).
- Humphrey, J. Scott, 1879, B. Sc., Findlay, civil engineer.
- Humphreys, Leona, 1895, B. A., Columbus.
- Hunt, William Franklin, 1887, M. E., St. Paul, Minn., attorney-at-law.
- Hyde, Wilby Grimes, 1887, B. A., (LL. B., Cincinnati), Chillicothe, attorney-at-law.
- Hyle, Charles A., 1896, E. E., Columbus.

I

- Innis, Lyman H., 1893, B. A., 1895, LL. B.
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J

- Jackson, Frank Pierce, 1892, LL. B., 1893, LL. M., Columbus, attorney.
- James, Florence May, 1896, B. A., Columbus.
- Jeffrey, Maud Dorothy, 1895, B. Ph., assistant in library, State University.
- Jenkins, William B., 1893, C. E. Wilmington, Columbus and Athens R'y.
- Jenkins, Willis H., 1894, C. E., Beloit.
- Johnson, Charles W., 1896, E. E., Columbus.
- Johnson, George Edward, 1892, C. E., 67 E. State street, Columbus, N. & W. R'y.
- Johnson, Herbert Lincoln, R. M. E., Cincinnati, General Electric Co.
- *Jones A. A., 1886, C. E., died May, 1894.
- Jones, Aaron Wesley, 1891, B. Sc., Columbus, Gardner Insurance Agency.
- Jones, Alexander Houston, 1895, M. E., Cleveland.
- Jones, Daniel D., 1893, G. Ph., Gallipolis, pharmacist, Epileptic Hospital.
- Jones, Jesse Lee, 1890, B. A., Philadelphia, Pa., chemist William Cramp & Sons, ship-builders.
- Jones, Paul, 1880, B. A., Columbus, attorney-at-law, city solicitor of Columbus.
- Jones, Pearl N., 1892, M. E., Pittsburg, Pa., Westinghouse Electrical and Manufacturing Co.
- Jones, Smiley, 1894, E. M., Downieville, Cal., electrician Gold Bluff mine.
- Jones, William Francis, 1896, D. V. M., Shandon.
- Junk, Harry Prior, 1895, LL. B., Columbus, attorney-at-law.

K

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- Keffer Frederic, 1892, M. E., 161 Orchard street, Elizabeth, N. J., chemist.
- Keifer, William White, 1886, B. A. (LL. B., Cincinnati), Springfield, attorney-at-law.
- Keiser, Romeo Orpheus, 1892, B. Sc., 1896, G. Ph., Columbus, assistant in chemistry. Ohio Medical University.

- Kemmler, Edward A., 1888, C. E., 895 S. High street, Columbus.
- Kerr, Samuel Thompson, 1894, M. E., Cleveland, with the Elliott-Lincoln Electric Co.
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- Kershaw, Samuel Charles, 1892, B. Ph., Columbus, bookkeeper Columbus Bolt Works.
- Kester, Fred. Edward, 1895, M. E. fellow in physics, State University.
- Kiesewetter, Frank Lou's, 1891, C. E., Columbus, Ohio State Savings Bank.
- Kiler, Abdel William, 1896, G. Ph., Clifton.
- Kirker, Harry L., 1889, B. Sc., 63 Liberty street, Allegheny City, Pa., Westinghouse Electrical and Manufacturing Co.
- Kiser, Katherine Daniel, 1895, B. A., Columbus, graduate student, State University.
- Knauss, William Henry, 1895, B. Sc., student Starling Medical College.
- Knight, Ruby Ray, 1895, B. Sc., Columbus.
- Knopf, Eva S., 1895, B. Ph., Columbus, teacher in High School.
- Knopf, George W., 1883, B. Sc., Pittsburg, Pa., bridge builder.
- Krauss, Bertha Katharine, 1892, Ottawa, teacher High School.
- Krieger, Charles Henry, 1887, G. Ph., Columbus, superintendent the Kauffman-Latimer Co.
- Krumm, Charles S. M., 1896, student, College of Law, State University.
- Krumm, Lillian Louise, 1895, B. Ph., Columbus.
- Kuhn, Vallie Howard, 1896, E. E., Etna.

L

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- Lamme, Bertha A., 1893, M. E., Pittsburg, Pa., Westinghouse Electrical and Manufacturing Co.
- Landacre, Francis Leroy, 1895, B. A., fellow in zoology, State University.
- Landacre, Walter Alexander, 1891, G. Ph., Columbus, with Braun & Sons, druggists.
- Landis, Walter Victor Titus, 1895, B. Ph., Dayton.
- Large, Joseph H., 1890, C. E., Pittsburg, Pa., assistant inspector of bridges Pennsylvania Southwest system.
- Laughlin, Hugh Clarence, 1890, B. A., Hazelton, Pa., teacher in High School.
- Lavery, William F., 1890, D. V. M., veterinary surgeon, State University.
- Layton, Roy Everett, 1895, B. A., student in the College of Law, State University.
- Lee, Edwin S., 1893, G. Ph., Columbus, druggist.
- Leffler, Edward Victor, 1896, G. Ph., Leipsic.
- Lemert, Helen Ora, 1894, B. A., Ohio avenue, Columbus, teacher High School.
- Lentz, Theresa, 1893, B. Ph., Lloydsville, teacher.
- Leonard, James Lincoln, 1893, LL. B. (B. S., Ohio Normal University), Welcome.
- Levering, Orpheus D., 1893, M. E., Melden, Mass., Wire Grip Machinery Co.
- Lewis, Charles Montgomery, 1881, B. A.
- Lewis, Thomas K. 1894, B. Sc., Columbus, assistant in drawing, State University.
- Lincoln, Paul Martyn, M. E., Niagara N. Y., Supt. The Cataract Construction Co.
- Lindo, William C., 1896, C. E., Moneague, Jamaica.
- Linson, Irvin, 1882, B. A.
- Logan, Lavallette Lasea, 1896, E. M., Portage, Pa.

- Lott, Charles Milford, 1895, M. E.
 Loveberry, Clarence, 1896, D. V. M., graduate student, State University.
 Lovejoy, Ellis, 1885, E. M., Union Furnice, chemist and superintendent Columbus Brick and Terra Cotta Co.
 Lovejoy, Jesse R., 1884, B. Sc., Schenectady, N. Y., with General Electric Light Co.
 Lusk, William Vinton, 1893, D. V. M., Ft. Wingate, New Mexico, veterinary surgeon, ind. cavalry.

M

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 Mackey, Ure LaVerne, 1893, M. E., (B. A., Wooster University), Allegheny, Pa., student in United Presbyterian Theological Seminary.
 Magruder, Leonard Anthony, 1895, B. Ph., 1896, LL. M.
 Maier, John Valentine, 1895, LL. B. (B. S., Northern Indiana Normal University).
 Malone, William Ruskin, 1885, B. A., Salt Lake City, Utah, principal city High School.
 Manley, Rush Emmett, 1894, M. E.
 Marple, Charles Allen, 1885, B. Sc., Louisville, Ky., teacher of mathematics, male High School.
 Marquard, Frank Fred, B. L., 1896, C. E., Dayton.
 Marshall, George Sidney, 1894, B. Ph., Columbus, law student State University.
 Martin, Edwin Dunlevy, 1891, B. Ph., Lee Centre, Ill., teacher.
 Martin, Percy, 1892, M. E., with Ludw. Loewe & Co., Martinikenfelde, Kaiserin Augusta Allee, Berlin, N. W., Germany.
 Marvin, Charles Frederick, 1883, M. E., Washington, D. C., U. S. Weather Bureau.
 Mason, George F., 1890, G. Ph.
 Masters, George Albert, 1886, C. E., Toledo.
 Mathers, John Harrison, 1895, B. Ph.
 Mathias, Frederick W., 1893, B. Sc., Toledo, teacher High School.
 Matson, George H., 1882, G. Ph., 93 Lexington ave, Columbus, professor of pharmacy, Ohio Medical University.
 Matson, William Edgar, 1896, E. E., New Holland.
 Mauer, George Clifford, 1892, D. V. M., Oak Harbor, veterinarian.
 McAllen, William Johnson, 1894, C. E., Pittsburg, Pa.
 McCarter, Edward Bancroft, 1892, B. A., 1894, LL. B., Columbus, attorney.
 McCarter, Robert Dale, Jr., 1895, M. E., Schenectady, N. Y., with Gen. Electric Co.
 McCormick, J. H., 1880, M. E., West Fulton street, Columbus, civil engineer.
 McCormick, William Francis, 1896, M. E., Columbus.
 McCulloch, George Elmer, 1891, B. Sc.
 McDowell, John Andrew, 1882, B. Sc., 949 Neil avenue, Columbus, secretary and treasurer of the Pleukharp Barrel Machine Co.
 McFadden, John Franklin 1878, B. A., street, Columbus, attorney-at-law.
 McGregor, James Howard, 1894, B. Sc., New York, university fellow in zoology, Columbia University.
 McGrew, John Alexander, 1895, C. E., Columbus, engineer, with Columbus Central Street R. R.
 McGuffey, Francis Hoyt, 1894, M. E., Mcuffey.
 McLaughlin, James Audley, 1895, LL. B. (B. A., Monmouth College).

- *McMakin, Amasa Brown, 1879, B. Sc. died May 22, 1891.
- McNary, George Bull, Jr., 1896, E. E., Toledo.
- McPherson, William, 1887, B. Sc., 1891, M. Sc., 1895, D. Sc., The Normandie, Columbus, State University, associate professor of general chemistry.
- Mead, Clinton V., 1884, B. Ph., Denver, Col., attorney-at-law.
- Mead, Rollo Nooman, 1895, D. V. M., Grand Rapids.
- Meek, Charles Wesley, 1894 LL. B. Toledo.
- Meek, Edward Duncan, 1896, B. A., Columbus.
- Meek, William W., 1889, B. Ph., 121 Fifteenth avenue, Columbus, J. W. Meek & Co.
- Mendenhall, Maurice H., 1893, D. V. M., West Elkton.
- Menough, Arthur George, 1894, E. M., Wellsville.
- Mercer Frank, Emmet, 1896, E. E., Wauseon.
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- Metters, Allen, 1896, B. A., Columbus.
- Middleton, Ambrose, 1895, G. Ph., Lancaster.
- Miller, Charles C., 1883, B. A.
- Miller, Daniel Elmer, 1890, G. Ph., Dayton, druggist.
- Miller, Frank Case, 1893, C. E., Columbus, assistant engineer C. S. & H., Short Line Division.
- Miller, Harry Franklin, 1889, M. E., Pittsburg, Pa., with Westinghouse Electrical Manufacturing Co.
- Milligan, James Porter, 1886, B. A., Columbus, pastor North Columbus Congregational Church.
- Mix, Edgar W., 1888, B. Sc., Paris, France, electrical engineering, representing the Thompson-Houston Electric Co.
- Mix, Melvin Noble, 1895, B. Ph., New York, The World, journalist.
- Mock, George Herbert, 1891, B. Sc., Ohio State Savings Bank, Columbus.
- Montgomery, Howard, 1896, B. Ph., student in College of Law, State University.
- Moodie, Alice Hynes, 1890, B. A., Mrs. Arthur Hartwell, Pittsburg, Pa.
- Mooney, Daniel Francis, 1894, LL. B., St. Mary's.
- Moore, Virgil Owen, 1895, B. Sc., student Stirling Medical College.
- Morhart, Katherine Elizabeth, 1893, B. Ph., Grand Rapids, Mich., teacher High School.
- Morrey, Annie Eliza, 1896, B. A., Chester Hill.
- Morrey, Charles B., 1890, B. A., 1896, M. D., Columbus, assistant in physiology, State University.
- Morrey, William T., 1888, B. A., Hoboken, N. J., teacher in Stevens Institute.
- Morrison, M. Frank, 1879, B. A., Mrs. S. H. Short, E. 9th avenue, Cleveland.
- Morrison, Robt. O., 1893, C. E., Cincinnati.
- Morton, George L., 1884, M. E., (LL. B., Nat'l Law School) patent office, Washington D. C., first assistant examiner dept electricity.
- Moses, Martha Allston, 1891, B. Ph., 1111 Hinman avenue, Evanston, Ill., bookkeeper.
- Moyer, Henry E. 1893, B. Sc., Sharpsville, Pa., chemist Sharpsville Iron Co.
- Mullay, Annie, 1887, B. Ph., Pomeroy, teacher.
- Mundhenk, Fred, 1896, B. Ph.

- Munn, Mortimer, Adam, 1894, C. E., Bowling Green.
 Murray, Claude R., 1895, B. A.
 Murray, Frank Erskine, 1892, D. V. M., Greenfield, veterinary surgeon.
 Myers, Joseph Simmons, 1887, B. A., Pittsburg, Pa., editor Pittsburg Post.
 Myers, Ord, 1895, M. E.
 Myers, Roy V., 1893, C. E., New Straitsville, with Columbus and Hocking Coal and Iron Co.
 Myers, Uriah H., 1887, E. M., Steubenville, chemist Jefferson Iron Works.

N

- Nagel, William G., 1895, M. E., Toledo.
 Needles, Mana R., 1890, B. Ph., Owosso, Mich., teacher in High School.
 Newton, Henry S., 1889, B. Sc.
 Newton, Samuel Donald, 1895, C. E.
 Niewvahnner, John Henry, 1891, B. A., Jackson, teacher in High School.
 Noble, W. F., 1879, B. A., Tiffin, attorney-at-law.

O

- O'Brine, David, 1881, B. Sc., M. Sc., E. M., D. Sc., M. D., Urbana, physician.
 Odebrecht, August, 1895, G. Ph., Columbus, with H. Braun & Sons.
 O'Kane, Sarah Eliza, 1891, B. Ph., Mrs. F. M. Raymund, 215 W. Tenth avenue, Columbus.
 Orton, Edward, Jr., 1884, E. M., Columbus, director of the department of Clay-working and Ceramics, State University.
 Ozias, Albert N., 1889, M. Sc.

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- Page, William Herbert, 1892, LL. B., 1894, LL. M. (B. A., Yale), E. Town street, Columbus, teacher of elementary law, State University.
 Palmer, Walter K., 1893, M. E., Columbus.
 Patch, Homer Austin, 1896, C. E., Austintown.
 Patchell, Owen P., 1889, B. Ph., Ardmore, Ind., attorney-at-law.
 Payne, Halbert Edwin, 1887, M. E., Erie, Pa., manufacturer.
 Peal, Allen Saunders, 1895, B. A., 3222 State street, Chicago, Ill.
 Pearce, George Downer, 1892, G. Ph., Goshen, Ind., pharmacist.
 Pearl, Allen Sexton, 1894, M. E., Berlin Heights.
 Pease, Edward Livingstone, 1895, law student, State University.
 Pedlow, Edward Benjamin, 1893, C. E., New Straitsville, chief engineer Columbus and Hocking Coal and Iron Co.
 Peirce, John Mattinson, 1895, M. E.
 Pence, David Arrel, 1894, M. E., Lowellville.

- Perkins, Earl Harley, 1893, LL. B., Wellington.
- Peters, William Lincoln, 1885, M. E., Riverside, Cal., manufacturer.
- Pfarr, Philip Lewis, 1896, B. Sc. (Agr.), Minersville.
- Phelps, Cyrus Alba, 1892, B. Sc., Sombereto, Jacataccas, Mexico, with Sombereto Mining and Milling Co.
- Pilcher, Hastings Moore, 1895, M. E.
- Plantz, Wyatt Garfield, 1894, B. A., Pomeroy.
- Pleukharp, Chas. V., 1885, M. E., Columbus, pastor South High Street M. E. Church.
- Plimmer, Gertrude Alice, 1896, B. Ph., Columbus.
- Pomerene, Frank Etherington, 1891, B. Ph., 1895, LL. B., Coshocton, attorney-at-law.
- Pool, Harwood Redington, 1881, B. Ph., LL. B., 62 Cedar street New York City.
- Postle, Herman R., 1894, C. E., Camp Chase.
- Postle, Kenneth F., 1894, B. A., Camp Chase.
- Powell, Charles S., 1893, E. E., Columbus, Westinghouse Electrical Manufacturing Co.
- Powell, Edward Thompson, 1896, LL. B., Columbus.
- Powell, Norman Clemson, 1895, D. V. M., Damascus.
- Priest, Frederick, 1895, D. V. M., Newark, veterinary surgeon.
- Pugh, Lawrence Randolph Whetzel, 1893, B. Ph., 1895, LL. B., Columbus, attorney-at-law.

R

- Radcliff, Charles Anson, 1895, B. Ph.
- Randall, Emilius Oviatt, 1892, LL. M., (B. Ph., Cornell University), Columbus, attorney-at-law, professor in Law School, State University.
- Rane, Frank William, 1891, B. A., professor of agriculture, Durham, N. H.
- Rarick, Murray M., 1896, B. Sc. (Agr.), Thornville.
- Ray, Frank A., 1887, E. M., The Marion, Columbus, associate professor of mine engineering, State University.
- Ray, William M., 1893, C. E., Room 825, Hickox Bl'd., Cleveland
- Raymond, Coles Abel, 1894, C. E., Toledo, Toledo Bridge Works.
- Raymund, Frank M., 1888, B. A., Columbus, attorney-at-law.
- Reed, Robert Browning, 1896, E. E., Troy.
- Reese, William Daniel, 1891, B. A.
- Reese, William Henry, 1896, G. Ph., Glen Roy.
- Reeves, Archibald C., 1887, C. E., Dayton, assistant city engineer.
- Richardson, Hamilton Hutchinson, 1892, B. Agr., Brooklyn, gardener.
- Rickey, Alla B., 1889, B. Ph., Mrs. Geo. H. Cless, 428 E. Gay street, Columbus.
- Riggs, Ernest Jacob, 1895, B. Sc., Eight avenue, Columbus, student.
- Rightmire, George Washington, 1895, B. Ph., Columbus, teacher in High School.
- Ritchey, Joseph C., 1890, B. Sc., Mingo Junction, with Junction Iron and Steel Co.
- Russell, Ralston, 1896, B. Ph., Pomeroy.
- Robinson, Eckka Mazola, 1892, B. Sc., Mrs. Rev. George Rowe, Brainard, Minn.
- Robinson, Erdis Geroska, 1893, C. E., Pineville, La., assistant engineer, K. C., W. & G. railroad.
- Rogers, Andrews, 1896, B. Ph., Columbus.
- Rogers, James Bertrand, 1896, E. M. Youngstown.

Root, Willis J., 1885, E. M.

Ruhlen, Frank, 1896, B. Sc. (Agr.), Plain City.

Ruppersburgh, Emma Anna, 1891, B. Sc., 1896, M. Sc., teacher in High School, Columbus.

S

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Sabine, Wallace Clement, 1886, B. A. (M. A., Harvard), 53 Trowbridge street, Cambridge, Mass., assistant professor in physics, Harvard University.

Safford, Robert Edwin, 1894, B. Sc., Columbus, with Columbus Savings Association.

Sandoe, Lydora Olivia, 1893, LL. B., Canal Winchester.

Sater, Lowry Francis, 1895, B. Ph., Columbus, law student, State University.

Schaub, Edward Louis Tascher, 1885, M. E., Dennison, with P. C. & St. L. R. R.

Scheibell, William O., 1888, E. M., Harper, superintendent Buckeye Portland Cement Co.

Schroll, Otto, 1886, C. E., Wheeling, W. Va., civil engineer.

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Scott, Daisy Medill, 1887, B. A., Columbus, teacher in High School.

Scott, Emma, 1888, B. Sc., Muttra, India, missionary.

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Sedgwick, Edward Crayton, 1895, M. E. *

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Sellenings, Albert Eugene, 1896, B. Ph., Chillicothe.

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Sharp, Charles C., 1888, C. E., Corning, superintendent mining department, Sunday Creek Coal Co.

Sharp, David Barton, 1893, LL. B., Columbus.

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Sherman, Christopher Ellis, 1894, C. E., Columbus, assistant in civil engineering, State University.

Short, Sidney H., B. Sc., East Ninth avenue, Cleveland, electrical engineer.

Siebert, Wilbur H., 1888, B. A., (M. A. Harvard), Cambridge, Mass., graduate student Harvard.

Sigerfoos, Charles Peter, 1889, B. Sc., 1019 Linden avenue, Baltimore, Md., Johns Hopkins University, assistant in zoology.

- Sigerfoos, Edward, 1891, B. Ph., U. S. Armory, Springfield, Mass., 2d Lieutenant Fifth Infantry, U. S. Army.
- Simonton, Mark, 1895, M. E.
- Simpson, Abigail Ellen, 1895, B. A., London, teacher.
- Skinner, Chas. E., 1890, M. E., box 435, Wilkinsburg, Pa., Westinghouse Electrical and Manufacturing Co.
- Slater, Burr Homer, 1895, G. Ph., assistant pharmacist Columbus State Hospital.
- Slyh, Emma Almieda, 1892, B. Sc., Marble Cliffs.
- Smith, Burton Griffin, 1895, G. Ph.
- Smith, Carl Clyde, 1890, B. Ph., Marietta.
- Smith, Florizel, 1880, B. A., Board of Trade, Columbus, attorney-at-law.
- Smith, Horace Prescott, 1886, B. Sc.
- Smith, Maud Virginia, 1894, B. A., Mrs. Rev. Thomas Chalmers, Port Huron, Mich.
- Smith Myron Alphonso, B. Ph., Columbus, with Moling Bros., real estate agents.
- Smith, Nathaniel B., 1893, D. V. M.
- Smith, Philo Christopher, 1885, B. Sc., Middlebranch, farmer.
- Snider, Jesse Worthington, 1893, LL. B., LL. M., Columbus.
- Sniveley, Harry H., 1895, B. A.
- Snyder, Henry, 1879, B. Sc., 1892, M. Sc., Oxford, professor of physics, Miami University.
- Snyder, James Edward 1895, LL. B. (B. A., Wooster University).
- Southard, Eustace Elden, 1895, G. Ph., 102 King ave., pharmacist.
- Southard, Thomas Campbell, 1896, B. A., McConnellsville.
- Sparks, Edwin Erle, 1884, B. A., 1892, M. A., Chicago University, extension lecturer.
- Spencer, William Henry, 1891, G. Ph., Oberlin, druggist
- Sperr, Frederick W., 1883, E. M., Houghton, Mich., professor of civil and mining engineering, Michigan School of Mines.
- Sprague, Charles Franklin, 1896, B. A., student in College of Law, State University.
- Spurrier, John Randolph, 1896, E. E.
- Stanberry, Charles L., 1892, G. Ph., Columbus, pharmacist Columbus Hospital for the Insane.
- Stephenson, Henry Thew, 1894, B. Sc., Bloomington, Ind., instructor in English, University of Indiana.
- Stewart, Edwin Earle, 1895, LL. B. (M. A., Antioch College), attorney, Springfield.
- Stewart, Lee Raymond, 1896, C. E., Columbus.
- Stewart, Harford Toland, 1896, E. E., Columbus.
- Stinebaugh, Isaac Long, 1892, C. E., Tiffin, Tiffin Inter-Urban Electric Railway.
- Storer, Norman Wilson, 1891, M. E., Pittsburg, Pa., Westinghouse Electrical and Manufacturing Co.
- Storer, Simon B., 1893, M. E., Niagara, N. Y., with Nia. Cataract Construction Co.
- Stouffer, Charles Irwin, 1893, LL. B., Columbus.
- Stoughton, Geo. L., 1895, LL. B., (B. A., Otterbein University).
- Stull, Emmett Willet, 1894, M. E., Elkland, Pa., electrician.
- Stump, Franklin Pierce, 1892, B. Agr., Convoy, farmer.
- Stump, John William, 1895, C. E.
- Surface, Harvey Adam, 1891, B. Sc., 1892, M. Sc., Napa, Cal., professor of natural science, Napa College, Napa Valley.

Swartzel, Earl Glen, 1895, B. Sc.

Swartzel, Karl Dale, 1893, B. Sc., 1894, M. Sc., assistant in mathematics, State University, Columbus.

Swisher, William Henry, 1896, G. Ph., Campbellstown.

T

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Talbot, Mignon, 1892, B. A., 640 Franklin avenue, Columbus, teacher.

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Taylor, Alexander R., 1895, B. Sc.

Taylor, Ralph Buren, 1895, B. A.

Taylor, Joseph Russell, 1887, B. A., Columbia University, New York City.

Teter, Anstie Welsh, 1896, G. Ph., Springfield.

Thompson, Carmi A., 1892, B. Ph., 1895, LL. B., Ironton.

Thompson, Howard N., 1888, B. Ph., Washington, D. C., correspondent Associated Press.

Tomlinson, James Rowe, 1892, C. E., Chillicothe.

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Townshend, Alice Margaret, 1880, B. A., Mrs. Charles Wing, Newark.

Townshend, Arthur Bailey, 1878, B. Sc., M. D., 22 West 32d street, New York, N. Y. physician.

Tupper, Eugene, L., 1893, G. Ph., Minneapolis, Minn., medical student.

Turner, Arthur M., 1893, M. E.

Twiss, George R., 1885, B. Sc., Cleveland, teacher of physics in High School.

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V

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Voorhees, Burt Fisk, 1894, LL. B., Coshocton.

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Voorhees, Isaac M., 1894, B. Ph., Unionport.

W

Wadsworth, F. L., Olcutt, 1888, B. Sc., E. M., M. E., Chicago, Ill., assistant professor of physics, University of Chicago.

- Wagstaff, Edward A., 1893, G. Ph., Niles, pharmacist.
- Walker, Frederick William, 1896, B. A., Columbus.
- Walker, James Madison, 1896, C. E., Wedonia, Ky.
- Walsh, Mary Helen, 1896, B. Ph., Columbus.
- Ward, J. C., 1880, B. A., Painesville, engineer and surveyor.
- Warner, Cora, 1882, B. Ph., corner Hubbard and Dennison avenues, Columbus.
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